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<10> MYRIAD GENETICS, INC.
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Bartel, Paul
Heichman, Karen

<120> COMPOSITIONS AND METHODS FOR TREATING NEUROLOGICAL DISORDERS AND DISEASES

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1 5 10 15

Val Ile Asp Leu

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<400> 244

Ala His Glu Lys Leu Arg His Ala Glu Ser Val Gly Asp Gly Glu Arg
1 5 10 15

Val Ser Arg Ser Arg Glu Lys His Ala Leu Leu Glu Gly Arg Thr Lys
20 25 30

Glu Leu Gly Tyr Thr Val Lys Lys His Leu Gln Asp Leu Ser Gly Arg
35 40 45

Ile Ser
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<400> 245

Ala Arg Gln Val Thr Ser Asn Ser Leu Ser Gly Thr Gln Glu Asp Gly
1 5 10 15

Leu Asp Asp Pro Arg Leu Glu Lys Leu Trp His Lys Ala Lys Thr Ser
20 25 30

Gly Lys Phe Ser Gly Glu Glu Leu Asp Lys Leu Trp Arg Glu Phe Leu
35 40 45

His His
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<400> 246

Leu Leu Leu Leu Cys Leu Ala Gly Leu Val Phe Val Ser Glu Ala Gly
1 5 10 15

Pro Thr Gly Thr
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<400> 247

Trp Glu Pro Phe Ala Ser Gly Lys Thr Ser Glu Ser Gly Glu Leu His
1 5 10 15

Gly Leu Thr Thr
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<400> 248

Glu Glu Glu Phe Val Glu Gly Ile Tyr Lys Val Glu Ile Asp Thr Lys
1 5 10 15

Ser Tyr Trp Lys
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Ala Leu Gly Ile Ser Pro Phe His Glu His Ala Glu Val Val Phe Thr
1 5 10 15

Ala Asn Asp Ser
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<400> 250

Gly Pro Arg Arg Tyr Thr Ile Ala Ala Leu Leu Ser Pro Tyr Ser Tyr
1 5 10 15

Ser Thr Thr Ala
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<400> 251

Leu Leu Cys Leu Ala Gly Leu Val Phe Val Ser Glu Ala Gly Pro Thr
1 5 10 15

Gly Thr Gly Glu Ser Lys Cys Pro Leu Met Val Lys Val Leu Asp Ala
20 25 30

Val Arg Gly Ser Pro Ala Ile Asn Val Ala Val His Val Phe Arg Lys
35 40 45

Ala Ala
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<400> 252

Glu Ser Gly Glu Leu His Gly Leu Thr Thr Glu Glu Glu Phe Val Glu
1 5 10 15

Gly Ile Tyr Lys Val Glu Ile Asp Thr Lys Ser Tyr Trp Lys Ala Leu
20 25 30

Gly Ile Ser Pro Phe His Glu His Ala Glu Val Val Phe Thr Ala Asn
35 40 45

Asp Ser
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Leu Glu Ser Gly Asp Leu Ser Met Ser Ser Ile Lys Val Asp Gly Ile
1 5 10 15

Arg Met Ser Phe
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<400> 254

Gln Asn Leu Leu Ala Lys Ile Cys Phe His His His Phe Ser Val Val
1 5 10 15

Glu Arg Val Asp
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<400> 255

Ser Cys Ala Ser Met Tyr Ser Arg Ser Ile Gln Gly His His Val Cys
1 5 10 15

Leu Leu Val Lys
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<400> 256

Lys Gly Glu Asn Ser Val Ser Val Asp Gly Lys Cys Ser Asp Ser Thr
1 5 10 15

Leu Leu Ser Asn
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<210> 257
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<400> 257

Ser Asp Ser Thr Leu Leu Ser Asn Leu Leu Glu Glu Met Lys Ala Thr
1 5 10 15

Leu Ala Lys Cys
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<400> 258

Asn Leu Leu Ala Lys Ile Cys Phe His His His Phe Ser Val Val Glu
1 5 10 15

Arg Val Asp Ser Cys Ala Ser Met Tyr Ser Arg Ser Ile Gln Gly His
20 25 30

His Val Cys Leu Leu Val Lys Lys Gly Glu Asn Ser Val Ser Val Asp
35 40 45

Gly Lys
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Trp Asp Asn Phe Gly Ile Trp Asp Asn Arg Ile Asp Glu Pro Ile Leu
1 5 10 15

Leu Pro Pro Ser
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<400> 260

Leu Tyr Phe Ala Val Tyr Asp Gly His Gly Gly Pro Ala Ala Ala Asp
1 5 10 15

Phe Cys His Thr
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Ala Thr Leu Leu Thr Ser Gly Thr Thr Ala Thr Val Ala Leu Leu Arg
1 5 10 15

Asp Gly Ile Glu
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<400> 262

Gly Gly Phe Val Ala Trp Asn Ser Leu Gly Gln Pro His Val Asn Gly
 1 5 10 15

Arg Leu Ala Met
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<400> 263

Asn Phe Met Val Asn Ser Gln Glu Ile Cys Asp Phe Val Asn Gln Cys
 1 5 10 15

His Asp Pro Asn
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<400> 264

Leu Leu Gln Asp Asp Arg Arg Val Thr Pro Thr Cys His Ser Ser Thr
 1 5 10 15

Ser Glu Pro Arg Cys Ser Arg Phe Asp Pro Asp Gly Ser Gly Ser Pro
 20 25 30

Ala Thr Trp Asp Asn Phe Gly Ile Trp Asp Asn Arg Ile Asp Glu Pro
 35 40 45

Ile Leu
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<400> 265

Gly Gln Pro His Val Asn Gly Arg Leu Ala Met Thr Arg Ser Ile Gly
 1 5 10 15

Asp Leu Asp Leu Lys Thr Ser Gly Val Ile Ala Glu Pro Glu Thr Lys
 20 25 30

Arg Ile Lys Leu His His Ala Asp Asp Ser Phe Leu Val Leu Thr Thr
 35 40 45

Asp Gly
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<213> Homo sapiens

<400> 266

Arg Thr Leu Asp Ser Glu Pro Lys Cys Val Glu Glu Leu Pro Glu Trp
1 5 10 15

Asn Phe Asp Gly
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<400> 267

Ser Ser Thr Leu Gln Ser Glu Gly Ser Asn Ser Asp Met Tyr Leu Val
1 5 10 15

Pro Ala Ala Met
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<400> 268

Met Asp Met Val Ser Asn Gln His Pro Trp Phe Gly Met Glu Gln Glu
1 5 10 15

Tyr Thr Leu Met
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<210> 269
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<400> 269

Arg Ala Cys Leu Tyr Ala Gly Val Lys Ile Ala Gly Thr Asn Ala Glu
1 5 10 15

Val Met Pro Ala
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<400> 270

Phe Pro Gly Pro Gln Gly Pro Tyr Tyr Cys Gly Val Gly Ala Asp Arg
1 5 10 15

Ala Tyr Gly Arg
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<400> 271

Leu Gln Ser Glu Gly Ser Asn Ser Asp Met Tyr Leu Val Pro Ala Ala
1 5 10 15

Met Phe Arg Asp Pro Phe Arg Lys Asp Pro Asn Lys Leu Val Leu Cys
20 25 30

Glu Val Phe Lys Tyr Asn Arg Arg Pro Ala Glu Thr Asn Leu Arg His
35 40 45

Thr Cys
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<210> 272
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<213> Homo sapiens

<400> 272

His Pro Trp Phe Gly Met Glu Gln Glu Tyr Thr Leu Met Gly Thr Asp
1 5 10 15

Gly His Pro Phe Gly Trp Pro Ser Asn Gly Phe Pro Gly Pro Gln Gly
20 25 30

Pro Tyr Tyr Cys Gly Val Gly Ala Asp Arg Ala Tyr Gly Arg Asp Ile
35 40 45

Val Glu
50

<210> 273
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<400> 273

Thr Thr Thr Pro Gln Gln Asn Lys Met Asp Lys Leu Ile Glu Ile Leu
1 5 10 15

Asn Ser Met Arg
20

<210> 274
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<400> 274

Ala Val Ser Asp Arg Ser Phe Ala Phe Thr Ala Ala Lys Leu Cys Asp
1 5 10 15

Lys Met Ala Leu
20

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<400> 275

Leu Cys Glu Val Phe Gly Thr Met Arg Ser Ser Thr Gly Glu Pro Phe
1 5 10 15

Arg Val Leu Val
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<400> 276

Glu Met Met Thr Glu Leu Leu Ala Ser Ala Arg Asp Lys Met Leu Cys
1 5 10 15

Pro Ser Glu Ser
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<400> 277

Glu Val Ile Glu Leu His Ala Asn Ser Trp Asn Pro Leu Thr Pro Pro
1 5 10 15

Ile Thr Gln Tyr
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<210> 278
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<400> 278

Phe Thr Ala Ala Lys Leu Cys Asp Lys Met Ala Leu Phe Met Val Glu
1 5 10 15

Gly Thr Lys Phe Arg Ser Leu Leu Leu Asn Met Leu Gln Lys Asp Phe
20 25 30

Thr Val Arg Glu Glu Leu Gln Gln Gln Asp Val Glu Arg Trp Leu Gly
35 40 45

Phe Ile
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<210> 279
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<213> Homo sapiens

<400> 279

Arg Ser Ser Thr Gly Glu Pro Phe Arg Val Leu Val Cys Pro Ile Tyr
1 5 10 15

Thr Cys Leu Arg Glu Leu Leu Gln Ser Gln Asp Val Lys Glu Asp Ala
20 25 30

Val Leu Cys Cys Ser Met Glu Leu Gln Ser Thr Gly Arg Leu Leu Glu
35 40 45

Glu Gln
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<210> 280
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<400> 280

Val Arg Met Met Gln Ala Gln Glu Ala Val Ser Arg Ile Lys Met Ala
1 5 10 15

Gln Lys Leu Ala
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<210> 281
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<213> Homo sapiens

<400> 281

Pro Leu Arg Thr Ile Ser Tyr Ile Ala Asp Ile Gly Asn Ile Val Val
1 5 10 15

Leu Met Ala Arg
20

<210> 282
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<400> 282

Ala Gln Ser Ile Gly Gln Ala Phe Ser Val Ala Tyr Gln Glu Phe Leu
1 5 10 15

Arg Ala Asn Gly
20

<210> 283
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<400> 283

Lys Gln Lys Gly Glu Ile Leu Gly Val Val Ile Val Glu Ser Gly Trp
1 5 10 15

Gly Ser Ile Leu
20

<210> 284
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<213> Homo sapiens

<400> 284

Thr Cys Gln Ser Ile Ile Lys Gly Leu Lys Asn Gln Ser Arg Val Lys
1 5 10 15

Leu Asn Ile Val
20

<210> 285
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<213> Homo sapiens

<400> 285

Ala Asp Ile Gly Asn Ile Val Val Leu Met Ala Arg Arg Arg Met Pro
1 5 10 15

Arg Ser Asn Ser Gln Glu Asn Val Glu Ala Ser His Pro Ser Gln Asp
20 25 30

Gly Lys Arg Gln Tyr Lys Met Ile Cys His Val Phe Glu Ser Glu Asp
35 40 45

Ala Gln
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<210> 286
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<213> Homo sapiens

<400> 286

Gly Val Val Ile Val Glu Ser Gly Trp Gly Ser Ile Leu Pro Thr Val
1 5 10 15

Ile Ile Ala Asn Met Met His Gly Gly Pro Ala Glu Lys Ser Gly Lys
20 25 30

Leu Asn Ile Gly Asp Gln Ile Met Ser Ile Asn Gly Thr Ser Leu Val
35 40 45

Gly Leu
50

<210> 287
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<213> Homo sapiens

<400> 287

Met Ala Phe Ala Asn Leu Arg Lys Val Leu Ile Ser Asp Ser Leu Asp
1 5 10 15

Pro Cys Cys Arg
20

<210> 288

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<400> 288

Gln Asn Leu Ser Lys Glu Glu Leu Ile Ala Glu Leu Gln Asp Cys Glu
1 5 10 15

Gly Leu Ile Val
20

<210> 289
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<400> 289

Ala Asp Val Ile Asn Ala Ala Glu Lys Leu Gln Val Val Gly Arg Ala
1 5 10 15

Gly Thr Gly Val
20

<210> 290
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<213> Homo sapiens

<400> 290

Leu Val Met Asn Thr Pro Asn Gly Asn Ser Leu Ser Ala Ala Glu Leu
1 5 10 15

Thr Cys Gly Met
20

<210> 291
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<213> Homo sapiens

<400> 291

Asp Glu Gly Ala Leu Leu Arg Ala Leu Gln Ser Gly Gln Cys Ala Gly
1 5 10 15

Ala Ala Leu Asp
20

<210> 292
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<213> Homo sapiens

<400> 292

Gln Ala Thr Ala Ser Met Lys Asp Gly Lys Trp Glu Arg Lys Lys Phe
1 5 10 15

Met Gly Thr Glu Leu Asn Gly Lys Thr Leu Gly Ile Leu Gly Leu Gly
20 25 30

Arg Ile Gly Arg Glu Val Ala Thr Arg Met Gln Ser Phe Gly Met Lys
35 40 45

Thr Ile
50

<210> 293

<211> 50

<212> PRT

<213> Homo sapiens

<400> 293

Ser Ala Ser Phe Gly Val Gln Gln Leu Pro Leu Glu Glu Ile Trp Pro
1 5 10 15

Leu Cys Asp Phe Ile Thr Val His Thr Pro Leu Leu Pro Ser Thr Thr
20 25 30

Gly Leu Leu Asn Asp Asn Thr Phe Ala Gln Cys Lys Lys Gly Val Arg
35 40 45

Val Val
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<210> 294

<211> 20

<212> PRT

<213> Homo sapiens

<400> 294

Thr Asp Gly Val Lys His Ser Met Asn Pro Phe Cys Glu Ile Ala Val
1 5 10 15

Glu Glu Ala Val
20

<210> 295

<211> 20

<212> PRT

<213> Homo sapiens

<400> 295

Val Ile Ala Val Ser Cys Gly Pro Ala Gln Cys Gln Glu Thr Ile Arg
Page 54

1 5 10 15

Thr Ala Leu Ala
20

<210> 296
<211> 20
<212> PRT
<213> Homo sapiens
<400> 296

Leu Leu Gly Lys Gln Ala Ile Asp Asp Asp Cys Asn Gln Thr Gly Gln
1 5 10 15

Met Thr Ala Gly
20

<210> 297
<211> 20
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<213> Homo sapiens
<400> 297

Val Thr Ala Asp Leu Arg Leu Asn Glu Pro Arg Tyr Ala Thr Leu Pro
1 5 10 15

Asn Ile Met Lys
20

<210> 298
<211> 20
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<213> Homo sapiens
<400> 298

Ala Glu Arg Leu Gly Pro Leu Gln Val Ala Arg Val Leu Ala Lys Leu
1 5 10 15

Ala Glu Lys Glu
20

<210> 299
<211> 50
<212> PRT
<213> Homo sapiens
<400> 299

Asp Asp Cys Asn Gln Thr Gly Gln Met Thr Ala Gly Phe Leu Asp Trp
1 5 10 15

Pro Gln Gly Thr Phe Ala Ser Gln Val Thr Leu Glu Gly Asp Lys Leu
Page 55

20 25 30

Lys Val Glu Arg Glu Ile Asp Gly Gly Leu Glu Thr Leu Arg Leu Lys
 35 40 45

Leu Pro
 50

<210> 300
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 <213> Homo sapiens

<400> 300

Pro Arg Tyr Ala Thr Leu Pro Asn Ile Met Lys Ala Lys Lys Lys Lys
 1 5 10 15

Ile Glu Val Ile Lys Pro Gly Asp Leu Gly Val Asp Leu Thr Ser Lys
 20 25 30

Leu Ser Val Ile Ser Val Glu Asp Pro Pro Gln Arg Thr Ala Gly Val
 35 40 45

Lys Val
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<210> 301
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<400> 301

Gly Lys Val Lys Val Gly Val Asn Gly Phe Gly Arg Ile Gly Arg Leu
 1 5 10 15

Val Thr Arg Ala Ala Phe Asn Ser
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<210> 302
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<400> 302

Lys Ala Glu Asn Gly Lys Leu Val Ile Asn Gly Asn Pro Ile Thr Ile
 1 5 10 15

Phe Gln Glu Arg Asp
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<210> 303
<211> 20
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<213> Homo sapiens

<400> 303

Ile Ser Ala Pro Ser Ala Asp Ala Pro Met Phe Val Met Gly Val Asn
1 5 10 15

His Glu Lys Tyr
20

<210> 304
<211> 20
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<213> Homo sapiens

<400> 304

Asp Asn Ser Leu Lys Ile Ile Ser Asn Ala Ser Cys Thr Thr Asn Cys
1 5 10 15

Leu Ala Pro Leu
20

<210> 305
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<213> Homo sapiens

<400> 305

Ala Lys Val Ile His Asp Asn Phe Gly Ile Val Glu Gly Leu Met Thr
1 5 10 15

Thr Val His Ala
20

<210> 306
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<213> Homo sapiens

<400> 306

Phe Gly Arg Ile Gly Arg Leu Val Thr Arg Ala Ala Phe Asn Ser Gly
1 5 10 15

Lys Val Asp Ile Val Ala Ile Asn Asp Pro Phe Ile Asp Leu Asn Tyr
20 25 30

Met Val Tyr Met Phe Gln Tyr Asp Ser Thr His Gly Lys Phe His Gly
35 40 45

Thr Val
50

<210> 307
<211> 50
<212> PRT
<213> Homo sapiens

<400> 307

Asn Gly Asn Pro Ile Thr Ile Phe Gln Glu Arg Asp Pro Ser Lys Ile
1 5 10 15

Lys Trp Gly Asp Ala Gly Ala Glu Tyr Val Val Glu Ser Thr Gly Val
20 25 30

Phe Thr Thr Met Glu Lys Ala Gly Ala His Leu Gln Gly Gly Ala Lys
35 40 45

Arg Val
50

<210> 308
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<213> Homo sapiens

<400> 308

Val Gly Val Gly Lys Val Ile Arg Gly Trp Asp Glu Ala Leu Leu Thr
1 5 10 15

Met Ser Lys Gly
20

<210> 309
<211> 20
<212> PRT
<213> Homo sapiens

<400> 309

Glu Lys Ala Arg Leu Glu Ile Glu Pro Glu Trp Ala Tyr Gly Lys Lys
1 5 10 15

Gly Gln Pro Asp
20

<210> 310
<211> 20
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<213> Homo sapiens

<400> 310

Asp Ala Lys Ile Pro Pro Asn Ala Lys Leu Thr Phe Glu Val Glu Leu
 1 5 10 15

Val Asp Ile Asp
 20

<210> 311
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 <213> Homo sapiens

<400> 311

Val Ile Arg Gly Trp Asp Glu Ala Leu Leu Thr Met Ser Lys Gly Glu
 1 5 10 15

Lys Ala Arg Leu Glu Ile Glu Pro Glu Trp Ala Tyr Gly Lys Lys Gly
 20 25 30

Gln Pro Asp Ala Lys Ile Pro Pro Asn Ala Lys Leu Thr Phe Glu Val
 35 40 45

Glu Leu
 50

<210> 312
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<400> 312

Leu Lys Glu Leu Arg Asp His Ala Asp Ser Asn Ile Val Ile Met Leu
 1 5 10 15

Val Gly Asn Lys
 20

<210> 313
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<400> 313

Ser Asp Leu Arg His Leu Arg Ala Val Pro Thr Asp Glu Ala Arg Ala
 1 5 10 15

Phe Ala Glu Lys
 20

<210> 314
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<213> Homo sapiens

<400> 314

Asn Gly Leu Ser Phe Ile Glu Thr Ser Ala Leu Asp Ser Thr Asn Val
1 5 10 15

Glu Ala Ala Phe
20

<210> 315

<211> 20

<212> PRT

<213> Homo sapiens

<400> 315

Gln Thr Ile Leu Thr Glu Ile Tyr Arg Ile Val Ser Gln Lys Gln Met
1 5 10 15

Ser Asp Arg Arg
20

<210> 316

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<212> PRT

<213> Homo sapiens

<400> 316

Glu Asn Asp Met Ser Pro Ser Asn Asn Val Val Pro Ile His Val Pro
1 5 10 15

Pro Thr Thr Glu
20

<210> 317

<211> 50

<212> PRT

<213> Homo sapiens

<400> 317

Thr Ile Leu Thr Glu Ile Tyr Arg Ile Val Ser Gln Lys Gln Met Ser
1 5 10 15

Asp Arg Arg Glu Asn Asp Met Ser Pro Ser Asn Asn Val Val Pro Ile
20 25 30

His Val Pro Pro Thr Thr Glu Asn Lys Pro Lys Val Gln Cys Cys Gln
35 40 45

Asn Ile
50

<210> 318
<211> 50
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<213> Homo sapiens

<400> 318

Leu Lys Glu Leu Arg Asp His Ala Asp Ser Asn Ile Val Ile Met Leu
1 5 10 15

Val Gly Asn Lys Ser Asp Leu Arg His Leu Arg Ala Val Pro Thr Asp
20 25 30

Glu Ala Arg Ala Phe Ala Glu Lys Asn Gly Leu Ser Phe Ile Glu Thr
35 40 45

Ser Ala
50

<210> 319
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<213> Homo sapiens

<400> 319

Ala Asp Leu Ala Gly Asn Ser Glu Val Ile Leu Pro Val Pro Ala Phe
1 5 10 15

Asn Val Ile Asn
20

<210> 320
<211> 20
<212> PRT
<213> Homo sapiens

<400> 320

Ala Met Arg Ile Gly Ala Glu Val Tyr His Asn Leu Lys Asn Val Ile
1 5 10 15

Lys Glu Lys Tyr
20

<210> 321
<211> 20
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<213> Homo sapiens

<400> 321

Lys Glu Gly Leu Glu Leu Leu Lys Thr Ala Ile Gly Lys Ala Gly Tyr
1 5 10 15

Thr Asp Lys Val
20

<210> 322
<211> 20
<212> PRT
<213> Homo sapiens

<400> 322

Val Ile Gly Met Asp Val Ala Ala Ser Glu Phe Phe Arg Ser Gly Lys
1 5 10 15

Tyr Asp Leu Asp
20

<210> 323
<211> 20
<212> PRT
<213> Homo sapiens

<400> 323

Lys Ser Phe Ile Lys Asp Tyr Pro Val Val Ser Ile Glu Asp Pro Phe
1 5 10 15

Asp Gln Asp Asp
20

<210> 324
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<213> Homo sapiens

<400> 324

Trp Gln Lys Phe Thr Ala Ser Ala Gly Ile Gln Val Val Gly Asp Asp
1 5 10 15

Leu Thr Val Thr Asn Pro Lys Arg Ile Ala Lys Ala Val Asn Glu Lys
20 25 30

Ser Cys Asn Cys Leu Leu Leu Lys Val Asn Gln Ile Gly Ser Val Thr
35 40 45

Glu Ser
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<210> 325
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<213> Homo sapiens

<400> 325

Gln Ala Asn Gly Trp Gly Val Met Val Ser His Arg Ser Gly Glu Thr
1 5 10 15

Glu Asp Thr Phe Ile Ala Asp Leu Val Val Gly Leu Cys Thr Gly Gln
20 25 30

Ile Lys Thr Gly Ala Pro Cys Arg Ser Glu Arg Leu Ala Lys Tyr Asn
35 40 45

Gln Leu
50

<210> 326
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<212> PRT
<213> Homo sapiens

<400> 326

Gln Gln Gln Gln Gln Gln Gln Gln Gln Lys His Glu Asp Gly Asp Ser
1 5 10 15

Asn Gly Thr Phe
20

<210> 327
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<212> PRT
<213> Homo sapiens

<400> 327

Asn Gly Thr Phe Phe Val Tyr His Ala Ile Tyr Leu Glu Glu Leu Thr
1 5 10 15

Ala Val Glu Leu
20

<210> 328
<211> 20
<212> PRT
<213> Homo sapiens

<400> 328

Thr Glu Lys Ile Ala Gln Leu Phe Ser Ile Ser Pro Cys Gln Ile Ser
1 5 10 15

Gln Ile Tyr Lys
20

<210> 329
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<212> PRT
<213> Homo sapiens

<400> 329

Gln Gly Pro Thr Gly Ile His Val Leu Ile Ser Asp Glu Met Ile Gln
1 5 10 15

Asn Phe Gln Glu
20

<210> 330
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<213> Homo sapiens

<400> 330

Glu Ala Cys Phe Ile Leu Asp Thr Met Lys Gln Glu Thr Asn Asp Ser
1 5 10 15

Tyr His Ile Ile
20

<210> 331
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<213> Homo sapiens

<400> 331

Gln Gln Gln Gln Gln Gln Gln Gln Gln Lys His Glu Asp Gly Asp Ser
1 5 10 15

Asn Gly Thr Phe Phe Val Tyr His Ala Ile Tyr Leu Glu Glu Leu Thr
20 25 30

Ala Val Glu Leu Thr Glu Lys Ile Ala Gln Leu Phe Ser Ile Ser Pro
35 40 45

Cys Gln
50

<210> 332
<211> 50
<212> PRT
<213> Homo sapiens

<400> 332

Cys Gln Ile Ser Gln Ile Tyr Lys Gln Gly Pro Thr Gly Ile His Val
1 5 10 15

Leu Ile Ser Asp Glu Met Ile Gln Asn Phe Gln Glu Glu Ala Cys Phe
20 25 30

Ile Leu Asp Thr Met Lys Gln Glu Thr Asn Asp Ser Tyr His Ile Ile
35 40 45

Leu Lys
50

<210> 333
<211> 20
<212> PRT
<213> Homo sapiens

<400> 333

Gly Lys Val Lys Val Gly Val Asn Gly Phe Gly Arg Ile Gly Arg Leu
1 5 10 15

Val Thr Arg Ala
20

<210> 334
<211> 20
<212> PRT
<213> Homo sapiens

<400> 334

Ala Ile Asn Asp Pro Phe Ile Asp Leu Asn Tyr Met Val Tyr Met Phe
1 5 10 15

Gln Tyr Asp Ser
20

<210> 335
<211> 20
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Lys Ala Glu Asn Gly Lys Leu Val Ile Asn Gly Asn Pro Ile Thr Ile
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Phe Gln Glu Arg
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Ile Ser Ala Pro Ser Ala Asp Ala Pro Met Phe Val Met Gly Val Asn
1 5 10 15

His Glu Lys Tyr
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Ile Thr Ala Thr Gln Lys Thr Val Asp Gly Pro Ser Gly Lys Leu Trp
1 5 10 15

Arg Asp Gly Arg
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<400> 338

Gly Asn Pro Ile Thr Ile Phe Gln Glu Arg Asp Pro Ser Lys Ile Lys
1 5 10 15

Trp Gly Asp Ala Gly Ala Glu Tyr Val Val Glu Ser Thr Gly Val Phe
20 25 30

Thr Thr Met Glu Lys Ala Gly Ala His Leu Gln Gly Gly Ala Lys Arg
35 40 45

Val Ile
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<400> 339

Met Phe Val Met Gly Val Asn His Glu Lys Tyr Asp Asn Ser Leu Lys
1 5 10 15

Ile Ile Ser Asn Ala Ser Cys Thr Thr Asn Cys Leu Ala Pro Leu Ala
20 25 30

Lys Val Ile His Asp Asn Phe Gly Ile Val Glu Gly Leu Met Thr Thr
35 40 45

Val His

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Lys Leu Ser Ile Pro Gln Leu Ser Val Thr Asp Tyr Glu Ile Met Glu
1 5 10 15

Gln Arg Leu Gly
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<400> 341

Glu Phe Glu Glu Ile Glu Gly Arg Trp Lys Lys Leu Ser Ser Gln Leu
1 5 10 15

Val Glu His Cys
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Ser Glu Ile Leu Lys Lys Gln Leu Lys Gln Cys Arg Leu Leu Val Ser
1 5 10 15

Asp Ile Gln Thr
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Met Cys Gln Gln Val Tyr Ala Arg Lys Glu Ala Leu Lys Gly Gly Leu
1 5 10 15

Glu Lys Thr Val
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Lys Arg Ala Lys Glu Glu Ala Gln Gln Lys Glu Ala Lys Val Lys Leu
1 5 10 15

Leu Thr Glu Ser
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<400> 345

Val Ala Gln Glu Ala Leu Lys Lys Glu Leu Glu Thr Leu Thr Thr Asn
1 5 10 15

Tyr Gln Trp Leu Cys Thr Arg Leu Asn Gly Lys Cys Lys Thr Leu Glu
20 25 30

Glu Val Trp Ala Cys Trp His Glu Leu Leu Ser Tyr Leu Glu Lys Ala
35 40 45

Asn Lys
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<400> 346

Ala Asp Phe Val Ala Phe Thr Asn His Phe Lys Gln Val Phe Ser Asp
1 5 10 15

Val Gln Ala Arg Glu Lys Glu Leu Gln Thr Ile Phe Asp Thr Leu Pro
20 25 30

Pro Met Arg Tyr Gln Glu Thr Met Ser Ala Ile Arg Thr Trp Val Gln
35 40 45

Gln Ser
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Met Lys Gln Ala Leu Ile Ala Ser Ala Arg Arg Leu Pro Gly Val Asn
1 5 10 15

Met Phe Glu Gln
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Gln Ala Ser Leu Ser Pro Ser Tyr Ile Asp Leu Thr Glu Cys Pro Tyr
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Met Trp Pro Tyr
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Asn Gly Asp Asn Ile Glu Val Ala Phe Ser Tyr Ser Ser Val Leu Trp
1 5 10 15

Pro Trp Ser Gly
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Glu Gln Thr Ser Thr Val Lys Leu Pro Ile Lys Val Lys Ile Ile Pro
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Thr Pro Pro Arg
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<400> 351

Gln Gly His Gly Lys Leu Asp Leu Leu Arg Ala Tyr Gln Ile Leu Asn
Page 69

1 5 10 15

Ser Tyr Lys Pro
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<400> 352

Ile Asp Leu Thr Glu Cys Pro Tyr Met Trp Pro Tyr Cys Ser Gln Pro
1 5 10 15

Ile Tyr Tyr Gly Gly Met Pro Thr Val Val Asn Val Thr Ile Leu Asn
20 25 30

Gly Met Gly Val Thr Gly Arg Ile Val Asp Lys Pro Asp Trp Gln Pro
35 40 45

Tyr Leu
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Asn Gly Asp Asn Ile Glu Val Ala Phe Ser Tyr Ser Ser Val Leu Trp
1 5 10 15

Pro Trp Ser Gly Tyr Leu Ala Ile Ser Ile Ser Val Thr Lys Lys Ala
20 25 30

Ala Ser Trp Glu Gly Ile Ala Gln Gly His Val Met Ile Thr Val Ala
35 40 45

Ser Pro
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Ala Asp Asp Leu Thr Asp Pro Ala Pro Ala Thr Thr Phe Ala His Leu
1 5 10 15

Asp Ala Thr Thr
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Asn Ile Val Gly Ser Glu His Tyr Asp Val Ala Arg Gly Val Gln Lys
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Ile Leu Gln Asp
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Tyr Lys Ser Leu Gln Asp Ile Ile Ala Ile Leu Gly Met Asp Glu Leu
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Ser Glu Glu Asp
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Lys Leu Thr Val Ser Arg Ala Arg Lys Ile Gln Arg Phe Leu Ser Gln
1 5 10 15

Pro Phe Gln Val
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Val Ala Glu Val Phe Thr Gly His Met Gly Lys Leu Val Pro Leu Lys
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Glu Thr Ile Lys
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Ala Asp Asp Leu Thr Asp Pro Ala Pro Ala Thr Thr Phe Ala His Leu
1 5 10 15

Asp Ala Thr Thr Val Leu Ser Arg Ala Ile Ala Glu Leu Gly Ile Tyr
20 25 30

Pro Ala Val Asp Pro Leu Asp Ser Thr Ser Arg Ile Met Asp Pro Asn
35 40 45

Ile Val
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Ile Leu Gly Met Asp Glu Leu Ser Glu Glu Asp Lys Leu Thr Val Ser
1 5 10 15

Arg Ala Arg Lys Ile Gln Arg Phe Leu Ser Gln Pro Phe Gln Val Ala
20 25 30

Glu Val Phe Thr Gly His Met Gly Lys Leu Val Pro Leu Lys Glu Thr
35 40 45

Ile Lys
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Glu Ile Asp Ala Leu Ala Val Ala Tyr Gly Val Ala Met Asn Lys Leu
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Thr Leu Pro Ile
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Glu Gln Ser Ala Leu Phe Gln Met Pro Leu Glu Ser Phe His Ser Leu
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Gln Glu Asp Trp
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Arg Arg Glu Gln Glu Leu Ala Glu Arg Glu Met Asp Ile Val Glu Arg
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Glu Leu His Leu
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Glu His Lys Ile Thr Val Gln Ala Ser Pro Thr Leu Asp Lys Arg Lys
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Gly Ser Asp Gly
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Ser Ser Ser Gly Gly Ser Gly Thr Trp Ser Arg Gly Gly Pro Pro Lys
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Lys Glu Glu Leu
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Leu Glu Ser Phe His Ser Leu Gln Glu Asp Trp Lys Leu Glu Ile Gln
1 5 10 15

His Met Phe Asp Asp Leu Arg Thr Lys Glu Lys Glu Leu Arg Ser Arg
20 25 30

Glu Glu Glu Leu Leu Arg Ala Ala Gln Glu Gln Arg Phe Gln Glu Glu
35 40 45

Gln Leu
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<400> 367

Pro Thr Leu Asp Lys Arg Lys Gly Ser Asp Gly Ala Ser Pro Pro Ala
1 5 10 15

Ser Pro Ser Ile Ile Pro Arg Leu Arg Ala Ile Arg Leu Thr Pro Val
20 25 30

Asp Cys Gly Gly Ser Ser Ser Gly Ser Ser Ser Gly Gly Ser Gly Thr
35 40 45

Trp Ser
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<400> 368

His His Ser Phe Pro Tyr Asp Tyr Ser Ala Ser Glu Tyr Arg Trp His
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Ile Asn Phe Asn
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<400> 369

Thr Phe Phe Ile Asp Trp Met Ala Ala Leu Gly Leu Thr Tyr Asp Arg
1 5 10 15

Lys Lys Val Ser
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Ser Lys Ala Ala Ile Leu Ala Arg Ile Lys Arg Thr Gly Asp Gly Asn
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Tyr Lys Ser Gly
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Ala Ser Glu Tyr Arg Trp His Ile Asn Phe Asn Thr Phe Phe Ile Asp
1 5 10 15

Trp Met Ala Ala
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Thr Tyr Asp Arg Lys Lys Val Ser Lys Ala Ala Ile Leu Ala Arg Ile
1 5 10 15

Lys Arg Thr Gly
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<400> 373

His His Ser Phe Pro Tyr Asp Tyr Ser Ala Ser Glu Tyr Arg Trp His
1 5 10 15

Ile Asn Phe Asn Thr Phe Phe Ile Asp Trp Met Ala Ala Leu Gly Leu
20 25 30

Thr Tyr Asp Arg Lys Lys Val Ser Lys Ala Ala Ile Leu Ala Arg Ile
35 40 45

Lys Arg
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<400> 374

Ala Ser Glu Tyr Arg Trp His Ile Asn Phe Asn Thr Phe Phe Ile Asp
1 5 10 15

Trp Met Ala Ala Leu Gly Leu Thr Tyr Asp Arg Lys Lys Val Ser Lys
20 25 30

Ala Ala Ile Leu Ala Arg Ile Lys Arg Thr Gly Asp Gly Asn Tyr Lys
35 40 45

Ser Gly
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Asp Thr Gly Gly Ala Asn Ile Pro Ala Leu Asn Glu Leu Leu Ser Val
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Trp Asn Met Gly
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Ala Asn His Asp Met Tyr Tyr Ala Ser Gly Cys Ser Ile Ala Lys Phe
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Pro Glu Asp Gly
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Ile Val Leu Tyr Gly Asp Ser Asn Cys Leu Asp Asp Ser His Arg Gln
1 5 10 15

Lys Asp Cys Phe
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Glu Gly Asn His Leu His Arg Tyr Ser Lys Val Leu Glu Ala His Leu
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Gly Asp Pro Lys
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Pro Leu Asn Glu Thr Ala Pro Ser Asn Leu Trp Lys His Gln Lys Leu
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Leu Ser Ile Asp
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Gly Cys Ser Ile Ala Lys Phe Pro Glu Asp Gly Val Val Ile Thr Gln
1 5 10 15

Thr Phe Lys Asp Gln Gly Leu Glu Val Leu Lys Gln Glu Thr Ala Val
20 25 30

Val Glu Asn Val Pro Ile Leu Gly Leu Tyr Gln Ile Pro Ala Glu Gly
35 40 45

Gly Gly
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Asp Asp Ser His Arg Gln Lys Asp Cys Phe Trp Leu Leu Asp Ala Leu
1 5 10 15

Leu Gln Tyr Thr Ser Tyr Gly Val Thr Pro Pro Ser Leu Ser His Ser
20 25 30

Gly Asn Arg Gln Arg Pro Pro Ser Gly Ala Gly Ser Val Thr Pro Glu
35 40 45

Arg Met
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Cys Val His Asp Asn Tyr Arg Asn Asn Pro Phe His Asn Phe Arg His
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Cys Phe Cys Val
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Asn Thr Tyr Gln Ile Asn Ala Arg Thr Glu Leu Ala Val Arg Tyr Asn
1 5 10 15

Asp Ile Ser Pro
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Leu Ala Thr Asp Met Ala Arg His Ala Glu Ile Met Asp Ser Phe Lys
1 5 10 15

Glu Lys Met Glu
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Leu Glu Glu Tyr Phe Met Gln Ser Asp Arg Glu Lys Ser Glu Gly Leu
1 5 10 15

Pro Val Ala Pro
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<400> 386

Gln Pro Leu Trp Glu Ser Arg Asp Arg Tyr Glu Glu Leu Lys Arg Ile
1 5 10 15

Asp Asp Ala Met
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<400> 387

Asn Glu Met Leu Ser Cys Leu Glu His Met Tyr His Asp Leu Gly Leu
1 5 10 15

Val Arg Asp Phe Ser Ile Asn Pro Val Thr Leu Arg Arg Trp Leu Phe
20 25 30

Cys Val His Asp Asn Tyr Arg Asn Asn Pro Phe His Asn Phe Arg His
35 40 45

Cys Phe
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<400> 388

Asp Arg Glu Lys Ser Glu Gly Leu Pro Val Ala Pro Phe Met Asp Arg
1 5 10 15

Asp Lys Val Thr Lys Ala Thr Ala Gln Ile Gly Phe Ile Lys Phe Val
20 25 30

Leu Ile Pro Met Phe Glu Thr Val Thr Lys Leu Phe Pro Met Val Glu
35 40 45

Glu Ile
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<400> 389

Ser Glu Leu Glu Lys Glu Gly Leu Arg Cys Arg Ser Asp Ser Glu Asp
1 5 10 15

Glu Cys Ser Thr
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<400> 390

Phe Lys Val Gly Asp Asp Cys Arg Gln Asp Met Leu Ala Leu Gln Ile
1 5 10 15

Ile Asp Leu Phe
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Gly Arg Gln Thr Asp Phe Gly Met Tyr Asp Tyr Phe Thr Arg Gln Tyr
1 5 10 15

Gly Asp Glu Ser
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<400> 392

Gly His Ile Ile His Ile Asp Phe Gly Phe Met Phe Glu Ser Ser Pro
1 5 10 15

Gly Gly Asn Leu
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Pro Tyr Met Asp Ala Val Val Ser Leu Val Thr Leu Met Leu Asp Thr
1 5 10 15

Gly Leu Pro Cys
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<400> 394

Tyr Asp Tyr Phe Thr Arg Gln Tyr Gly Asp Glu Ser Thr Leu Ala Phe
1 5 10 15

Gln Gln Ala Arg Tyr Asn Phe Ile Arg Ser Met Ala Ala Tyr Ser Leu
20 25 30

Leu Leu Phe Leu Leu Gln Ile Lys Asp Arg His Asn Gly Asn Ile Met
35 40 45

Leu Asp
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<400> 395

Phe Met Phe Glu Ser Ser Pro Gly Gly Asn Leu Gly Trp Glu Pro Asp
1 5 10 15

Ile Lys Leu Thr Asp Glu Met Val Met Ile Met Gly Gly Lys Met Glu
Page 81

20 25 30

Ala Thr Pro Phe Lys Trp Phe Met Glu Met Cys Val Arg Gly Tyr Leu
35 40 45

Ala Val
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Tyr Ser Asn Asp Phe Asn Ser Gly Glu Ala Asn Thr Ser Asp Ala Phe
1 5 10 15

Asn Trp Thr Val
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<400> 397

Leu Ser Pro Ser Cys Leu Ser Leu Leu His Leu Gln Glu Lys Asn Trp
1 5 10 15

Ser Ala Leu Leu
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<210> 398
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<400> 398

Thr Ala Val Val Ile Ile Leu Thr Ile Ala Gly Asn Ile Leu Val Ile
1 5 10 15

Met Ala Val Ser
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<210> 399
<211> 20
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<400> 399

Leu Glu Lys Lys Leu Gln Asn Ala Thr Asn Tyr Phe Leu Met Ser Leu
Page 82

1 5 10 15

Ala Ile Ala Asp
20

<210> 400
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<400> 400

Leu Met Ser Leu Ala Ile Ala Asp Met Leu Leu Gly Phe Leu Val Met
1 5 10 15

Pro Val Ser Met
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<400> 401

Leu Tyr Ser Asn Asp Phe Asn Ser Gly Glu Ala Asn Thr Ser Asp Ala
1 5 10 15

Phe Asn Trp Thr Val Asp Ser Glu Asn Arg Thr Asn Leu Ser Cys Glu
20 25 30

Gly Cys Leu Ser Pro Ser Cys Leu Ser Leu Leu His Leu Gln Glu Lys
35 40 45

Asn Trp
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Ala Leu Leu Thr Ala Val Val Ile Ile Leu Thr Ile Ala Gly Asn Ile
1 5 10 15

Leu Val Ile Met Ala Val Ser Leu Glu Lys Lys Leu Gln Asn Ala Thr
20 25 30

Asn Tyr Phe Leu Met Ser Leu Ala Ile Ala Asp Met Leu Leu Gly Phe
35 40 45

Leu Val
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Val Ile His Glu Val Leu His His Gln Arg His Val Arg Thr Ile Trp
1 5 10 15

Gln His Arg Lys
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<400> 404

Leu His Arg Ala Arg Ala Leu Gln Lys Arg His Glu Asp Phe Glu Glu
1 5 10 15

Val Ala Gln Asn
20

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<400> 405

Val Arg Arg Val Glu Gln Arg Lys Ile Leu Leu Asp Met Ser Val Ser
1 5 10 15

Phe His Thr His
20

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<213> Homo sapiens

<400> 406

Thr Leu Gln Val Thr Val Asn Val Ile Lys Glu Gly Glu Asp Leu Ile
1 5 10 15

Gln Gln Leu Arg
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<210> 407
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<400> 407

Glu Leu Phe Gln Glu Arg Lys Ile Lys Leu Glu Leu Phe Leu His Val
1 5 10 15

Arg Ile Phe Glu
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<400> 408

Gln Lys Arg His Glu Asp Phe Glu Glu Val Ala Gln Asn Thr Tyr Thr
1 5 10 15

Asn Ala Asp Lys Leu Leu Glu Ala Ala Glu Gln Leu Ala Gln Thr Gly
20 25 30

Glu Cys Asp Pro Glu Glu Ile Tyr Gln Ala Ala His Gln Leu Glu Asp
35 40 45

Arg Ile
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<400> 409

Lys Glu Gly Glu Asp Leu Ile Gln Gln Leu Arg Asp Ser Ala Ile Ser
1 5 10 15

Ser Asn Lys Thr Pro His Asn Ser Ser Ile Asn His Ile Glu Thr Val
20 25 30

Leu Gln Gln Leu Asp Glu Ala Gln Ser Gln Met Glu Glu Leu Phe Gln
35 40 45

Glu Arg
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Arg Ile Leu Ile Asn Pro Gly Asn His Leu Lys Ile Gln Glu Gly Thr
1 5 10 15

Leu Gly Phe Phe
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Ile Ala Ser Asp Ala Lys Glu Val Lys Arg Ala Phe Phe Tyr Cys Lys
1 5 10 15

Ala Cys His Asp
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<213> Homo sapiens

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Asp Ile Thr Asp Pro Lys Arg Ile Lys Lys Cys Gly Cys Lys Arg Leu
1 5 10 15

Glu Asp Glu Gln
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Pro Ser Thr Leu Ser Pro Lys Lys Lys Gln Arg Asn Gly Gly Met Arg
1 5 10 15

Asn Ser Pro Asn
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Thr Ser Pro Lys Leu Met Arg His Asp Pro Leu Leu Ile Pro Gly Asn
1 5 10 15

Asp Gln Ile Asp
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<400> 415

Ile Ile Thr Glu Leu Val Asn Asp Thr Asn Val Gln Phe Leu Asp Gln
1 5 10 15

Asp Asp Asp Asp Asp Pro Asp Thr Glu Leu Tyr Leu Thr Gln Pro Phe
20 25 30

Ala Cys Gly Thr Ala Phe Ala Val Ser Val Leu Asp Ser Leu Met Ser
35 40 45

Ala Thr
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<210> 416
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<400> 416

Val Ser Ile Leu Pro Gly Thr Pro Leu Ser Arg Ala Asp Leu Arg Ala
1 5 10 15

Val Asn Ile Asn Leu Cys Asp Met Cys Val Ile Leu Ser Ala Asn Gln
20 25 30

Asn Asn Ile Asp Asp Thr Ser Leu Gln Asp Lys Glu Cys Ile Leu Ala
35 40 45

Ser Leu
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Val Val Tyr Tyr His Asn Ile Glu Thr Ser Asn Phe Pro Lys Leu Leu
1 5 10 15

Ile Ala Leu Leu
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<400> 418

Met Leu Leu Leu Val Glu Val Asn Val Ile Arg Val Arg Arg Tyr Ile
1 5 10 15

Phe Phe Lys Thr
20

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<400> 419

Pro Arg Glu Val Lys Pro Pro Glu Asp Leu Gln Asp Leu Gly Val Arg
1 5 10 15

Phe Leu Gln Pro
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<400> 420

Phe Val Asn Leu Leu Ser Lys Gly Thr Tyr Trp Trp Met Asn Ala Phe
1 5 10 15

Ile Lys Thr Ala
20

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<400> 421

His Lys Lys Pro Ile Asp Leu Arg Ala Ile Gly Lys Leu Pro Ile Ala
1 5 10 15

Met Arg Ala Leu
20

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<400> 422

Val Val Tyr Tyr His Asn Ile Glu Thr Ser Asn Phe Pro Lys Leu Leu
 1 5 10 15

Ile Ala Leu Leu Val Tyr Trp Thr Leu Ala Phe Ile Thr Lys Thr Ile
 20 25 30

Lys Phe Val Lys Phe Leu Asp His Ala Ile Gly Phe Ser Gln Leu Arg
 35 40 45

Phe Cys
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<210> 423
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<400> 423

Arg Phe Leu Gln Pro Phe Val Asn Leu Leu Ser Lys Gly Thr Tyr Trp
 1 5 10 15

Trp Met Asn Ala Phe Ile Lys Thr Ala His Lys Lys Pro Ile Asp Leu
 20 25 30

Arg Ala Ile Gly Lys Leu Pro Ile Ala Met Arg Ala Leu Thr Asn Tyr
 35 40 45

Gln Arg
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<210> 424
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<400> 424

Glu Met Glu Glu Asp Gln Arg Trp Leu Glu Lys Glu Glu Arg Phe Leu
 1 5 10 15

Lys Pro Asp Val Arg
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<210> 425
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<212> PRT
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<400> 425

Arg Gly Ser Ile Asp Arg Glu Asp Gly Ser Leu Gln Gly Pro Ile Gly
1 5 10 15

Asn Gln His Ile Tyr Gln Pro Val Gly Val
20 25

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Gly Val Lys Leu Gln Pro Gln Glu Ile Ser Pro Pro Pro Thr Ala Asn
1 5 10 15

Leu Asp Arg Ser Asn Asp Lys Val Tyr
20 25

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Leu Arg Thr Leu Leu Ala Thr Val Asp Glu Thr Ile Pro Leu Leu Pro
1 5 10 15

Ala Ser Thr His Arg Glu
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Leu Asn Ser Asp Leu Gly Glu Leu Ile Asn Lys Met Lys Leu Ala Gln
1 5 10 15

Gln Tyr Val Met Thr Ser Leu Gln
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Gly Ser Leu Gln Gly Pro Ile Gly Asn Gln His Ile Tyr Gln Pro Val
1 5 10 15

Gly Lys Pro Asp Pro Ala Ala Pro Pro Lys Lys Pro Pro Arg Pro Gly
20 25 30

Ala Pro Gly His Leu Gly Ser Leu Ala Ser Leu Ser Ser Pro Ala Asp
35 40 45

Ser Tyr
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Pro Pro Pro Thr Ala Asn Leu Asp Arg Ser Asn Asp Lys Val Tyr Glu
1 5 10 15

Asn Val Thr Gly Leu Val Lys Ala Val Ile Glu Met Ser Ser Lys Ile
20 25 30

Gln Pro Ala Pro Pro Glu Glu Tyr Val Pro Met Val Lys Glu Val Gly
35 40 45

Leu Ala
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Ile Asp Leu Asp Pro His Phe Asn Asp Ile Leu Gly Gln His Ser Arg
1 5 10 15

Lys Arg Trp Glu
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Asn Phe Ile His Ser Glu Asn Arg His Leu Val Ser Pro Glu Ala Leu
1 5 10 15

Asp Leu Leu Asp
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Lys Leu Leu Arg Tyr Asp His Gln Gln Arg Leu Thr Ala Lys Glu Ala
1 5 10 15

Met Glu His Pro
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Tyr Phe Tyr Pro Val Val Lys Glu Gln Ser Gln Pro Cys Ala Asp Asn
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Ala Val Leu Ser
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Glu Gln Ser Gln Pro Cys Ala Asp Asn Ala Val Leu Ser Ser Gly Leu
1 5 10 15

Thr Ala Ala Arg
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Ile Asp Leu Asp Pro His Phe Asn Asp Ile Leu Gly Gln His Ser Arg
1 5 10 15

Lys Arg Trp Glu Asn Phe Ile His Ser Glu Asn Arg His Leu Val Ser
20 25 30

Pro Glu Ala Leu Asp Leu Leu Asp Lys Leu Leu Arg Tyr Asp His Gln
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Gln Arg
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Leu Leu Asp Lys Leu Leu Arg Tyr Asp His Gln Gln Arg Leu Thr Ala
1 5 10 15

Lys Glu Ala Met Glu His Pro Tyr Phe Tyr Pro Val Val Lys Glu Gln
20 25 30

Ser Gln Pro Cys Ala Asp Asn Ala Val Leu Ser Ser Gly Leu Thr Ala
35 40 45

Ala Arg
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Ala His Ala Ile Arg Leu Leu Leu Glu Phe Thr Asp Thr Ser Tyr Glu
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Glu Lys Arg Tyr
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Tyr Leu Leu Asp Gly Lys Asn Lys Ile Thr Gln Ser Asn Ala Ile Leu
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Arg Tyr Ile Ala
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Glu Lys Leu Lys Pro Gln Tyr Leu Glu Glu Leu Pro Gly Gln Leu Lys
1 5 10 15

Gln Phe Ser Met
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Glu Lys Leu Lys Pro Gln Tyr Leu Glu Glu Leu Pro Gly Gln Leu Lys
1 5 10 15

Gln Phe Ser Met
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Ser Met Cys Lys Met Pro Ile Asn Asn Lys Met Ala Gln Trp Gly Asn
1 5 10 15

Lys Pro Val Cys
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Gly Lys Asn Lys Ile Thr Gln Ser Asn Ala Ile Leu Arg Tyr Ile Ala
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Arg Lys His Asn Met Cys Gly Glu Thr Glu Glu Glu Lys Ile Arg Val
20 25 30

Asp Ile Ile Glu Asn Gln Val Met Asp Phe Arg Thr Gln Leu Ile Arg
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Leu Cys

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Gln Tyr Leu Glu Glu Leu Pro Gly Gln Leu Lys Gln Phe Ser Met Phe
1 5 10 15

Leu Trp Lys Phe Ser Trp Phe Ala Gly Glu Lys Leu Thr Phe Val Asp
20 25 30

Phe Leu Thr Tyr Asp Ile Leu Asp Gln Asn Arg Ile Phe Asp Pro Lys
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Cys Leu
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Leu Arg Val Asn Asp Ser Ile Leu Phe Val Asn Glu Val Asp Val Arg
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Glu Val Thr His
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Asn Glu Val Asp Val Arg Glu Val Thr His Ser Ala Ala Val Glu Ala
1 5 10 15

Leu Lys Glu Ala
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Gln His Ile Pro Gly Asp Asn Ser Ile Tyr Val Thr Lys Ile Ile Glu
Page 95

1 5 10 15

Gly Gly Ala Ala
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<400> 448

Leu Lys Val Ala Lys Pro Ser Asn Ala Tyr Leu Ser Asp Ser Tyr Ala
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Pro Pro Asp Ile
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Pro Ala Glu Lys Val Met Glu Ile Lys Leu Ile Lys Gly Pro Lys Gly
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Leu Gly Phe Ser
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Arg Glu Val Thr His Ser Ala Ala Val Glu Ala Leu Lys Glu Ala Gly
1 5 10 15

Ser Ile Val Arg Leu Tyr Val Met Arg Arg Lys Pro Pro Ala Glu Lys
20 25 30

Val Met Glu Ile Lys Leu Ile Lys Gly Pro Lys Gly Leu Gly Phe Ser
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Ile Ala
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Ile Tyr Val Thr Lys Ile Ile Glu Gly Gly Ala Ala His Lys Asp Gly
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Arg Leu Gln Ile Gly Asp Lys Ile Leu Ala Val Asn Ser Val Gly Leu
20 25 30

Glu Asp Val Met His Glu Asp Ala Val Ala Ala Leu Lys Asn Thr Tyr
35 40 45

Asp Val
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Ser Thr Pro Lys Leu Asn Gly Ser Gly Pro Ser Trp Trp Pro Glu Cys
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Thr Cys Thr Asn
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Asn Gly Ser Asp Gly Met Phe Lys Tyr Glu Glu Ile Val Leu Glu Arg
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Gly Asn Ser Gly
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Asp Cys Val Leu Arg Val Asn Glu Val Glu Val Ser Glu Val Val His
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Ser Arg Ala Val
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Phe Ile Thr Lys Ile Ile Pro Gly Gly Ala Ala Ala Met Asp Gly Arg
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Leu Gly Val Asn
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Thr Ser Asp Met Val Tyr Leu Lys Val Ala Lys Pro Gly Ser Leu His
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Leu Asn Asp Met
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Pro Pro Thr Arg Tyr Ser Pro Ile Pro Arg His Met Leu Ala Glu Glu
1 5 10 15

Asp Phe Thr Arg Glu Pro Arg Lys Ile Ile Leu His Lys Gly Ser Thr
20 25 30

Gly Leu Gly Phe Asn Ile Val Gly Gly Glu Asp Gly Glu Gly Ile Phe
35 40 45

Val Ser
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<400> 458

Asp Leu Ser Gly Glu Leu Arg Arg Gly Asp Arg Ile Leu Ser Val Asn
1 5 10 15

Gly Val Asn Leu Arg Asn Ala Thr His Glu Gln Ala Ala Ala Ala Leu
20 25 30

Lys Arg Ala Gly Gln Ser Val Thr Ile Val Ala Gln Tyr Arg Pro Glu
35 40 45

Glu Tyr
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Leu Val Leu Ser Leu Arg Arg Arg Leu Arg Glu Glu Leu Glu Lys Gly
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Ala Lys Ala Thr
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Ala Thr Glu Arg Thr Leu Val Tyr Pro Leu Glu Leu Pro Lys Glu Pro
1 5 10 15

Thr Ser Pro Pro
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Phe Arg Pro Cys Pro Glu Pro Asp Glu Lys Leu Trp Asp Pro Val Gly
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Tyr Tyr Tyr Ser
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Asp Gly Ser Leu Lys Ile Val Pro Gly His Ala Arg Cys Gln Pro Gly
1 5 10 15

Gly Gly Pro Pro
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Ser Pro Pro Pro Gly Ile Pro Gly Gln Pro Leu Pro Ser Pro Thr Arg
1 5 10 15

Leu His Leu Gly
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Ser Asn Ala Asn Gly Tyr Val Arg Leu Gln Leu Gly Gly Glu Asp Arg
1 5 10 15

Gly Gly Leu Gly His Pro Leu Pro Glu Leu Ala Asp Glu Leu Arg Arg
20 25 30

Lys Leu Gln Gln Arg Gln Pro Leu Pro Asp Ser Asn Pro Glu Glu Ser
35 40 45

Ser Val
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Tyr Tyr Tyr Ser Asp Gly Ser Leu Lys Ile Val Pro Gly His Ala Arg
1 5 10 15

Cys Gln Pro Gly Gly Gly Pro Pro Ser Pro Pro Pro Gly Ile Pro Gly
20 25 30

Gln Pro Leu Pro Ser Pro Thr Arg Leu His Leu Gly Gly Gly Arg Asn
35 40 45

Ser Asn
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Ser Phe His Arg Gly Ser Thr Ser Ser Ser Pro Tyr Val Ala Ala Ser
1 5 10 15

His Thr Pro Pro
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Ile Asn Gly Ser Asp Ser Ile Leu Gly Thr Arg Gly Asn Ala Ala Gly
1 5 10 15

Ser Ser Gln Thr
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Gly Asp Ala Leu Gly Lys Ala Leu Ala Ser Ile Tyr Ser Pro Asp His
1 5 10 15

Thr Ser Ser Ser
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Phe Pro Ser Asn Pro Ser Thr Pro Val Gly Ser Pro Ser Pro Leu Thr
1 5 10 15

Gly Thr Ser Gln
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Trp Pro Arg Pro Gly Gly Gln Ala Pro Ser Ser Pro Ser Tyr Glu Asn
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Ser Leu His Ser
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Leu Gln Ser Arg Met Glu Asp Arg Leu Asp Arg Leu Asp Asp Ala Ile
1 5 10 15

His Val Leu Arg Asn His Ala Val Gly Pro Ser Thr Ser Leu Pro Ala
20 25 30

Gly His Ser Asp Ile His Ser Leu Leu Gly Pro Ser His Asn Ala Pro
35 40 45

Ile Gly
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Leu Gln Ser Arg Met Glu Asp Arg Leu Asp Arg Leu Asp Asp Ala Ile
1 5 10 15

His Val Leu Arg Asn His Ala Val Gly Pro Ser Thr Ser Leu Pro Ala
20 25 30

Gly His Ser Asp Ile His Ser Leu Leu Gly Pro Ser His Asn Ala Pro
35 40 45

Ile Gly
50

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Asn Ile Leu Lys Lys Ala Asn Gln Lys Arg Met Leu Gly Asp Met Ala
1 5 10 15

Ile Glu Gly Gly
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Asn Phe Thr Thr Ala Tyr Phe Lys Gln Gln Thr Ile Arg Glu Leu Phe
1 5 10 15

Asp Met Pro Leu
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Glu Glu Pro Ser Ser Ser Ser Val Pro Ser Ala Pro Glu Glu Glu Glu
1 5 10 15

Glu Thr Val Ala
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Ser Lys Gln Thr His Ile Leu Glu Gln Ala Leu Cys Arg Ala Glu Asp
1 5 10 15

Glu Glu Asp Ile
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<400> 477

Arg Ala Ala Thr Gln Ala Lys Ala Glu Gln Val Ala Glu Leu Ala Glu
1 5 10 15

Phe Asn Glu Asn
20

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<400> 478

Asp Gly Phe Pro Ala Gly Glu Gly Glu Glu Ala Gly Arg Pro Gly Ala
1 5 10 15

Glu Asp Glu Glu Met Ser Arg Ala Glu Gln Glu Ile Ala Ala Leu Val
20 25 30

Glu Gln Leu Thr Pro Ile Glu Arg Tyr Ala Met Lys Phe Leu Glu Ala
35 40 45

Ser Leu
50

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Ala Glu Gln Glu Ile Ala Ala Leu Val Glu Gln Leu Thr Pro Ile Glu
1 5 10 15

Arg Tyr Ala Met Lys Phe Leu Glu Ala Ser Leu Glu Glu Val Ser Arg
20 25 30

Glu Glu Leu Lys Gln Ala Glu Glu Gln Val Glu Ala Ala Arg Lys Asp
35 40 45

Leu Asp
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Met Gly Gly Ser Gly Ser Arg Leu Ser Lys Glu Leu Leu Ala Glu Tyr
1 5 10 15

Gln Asp Leu Thr
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Phe Leu Thr Lys Gln Glu Ile Leu Leu Ala His Arg Arg Phe Cys Glu
1 5 10 15

Leu Leu Pro Gln
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Glu Gln Arg Ser Val Glu Ser Ser Leu Arg Ala Gln Val Pro Phe Glu
1 5 10 15

Gln Ile Leu Ser
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<400> 483

Leu Pro Glu Leu Lys Ala Asn Pro Phe Lys Glu Arg Ile Cys Arg Val
1 5 10 15

Phe Ser Thr Ser
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<400> 484

Pro Ala Lys Asp Ser Leu Ser Phe Glu Asp Phe Leu Asp Leu Leu Ser
1 5 10 15

Val Phe Ser Asp
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Thr Ala Thr Pro Asp Ile Lys Ser His Tyr Ala Phe Arg Ile Phe Asp
1 5 10 15

Phe Asp Asp Asp Gly Thr Leu Asn Arg Glu Asp Leu Ser Arg Leu Val
20 25 30

Asn Cys Leu Thr Gly Glu Gly Glu Asp Thr Arg Leu Ser Ala Ser Glu
35 40 45

Met Lys
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<400> 486

Thr Arg Leu Ser Ala Ser Glu Met Lys Gln Leu Ile Asp Asn Ile Leu
1 5 10 15

Glu Glu Ser Asp Ile Asp Arg Asp Gly Thr Ile Asn Leu Ser Glu Phe
20 25 30

Gln His Val Ile Ser Arg Ser Pro Asp Phe Ala Ser Ser Phe Lys Ile
35 40 45

Val Leu
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Ala Asp Leu Gln Phe Ser Gln Leu Leu Gly Asn Leu Leu Gly Pro Ala
1 5 10 15

Gly Pro Gly Ala
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Pro Pro Pro Pro Pro Pro Pro Pro Pro Ala Pro Glu Gln Gln Thr Met Pro
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Pro Pro Gly Ser
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Gly Ser Ser Glu Ser Ile Ala Ala Phe Ile Gln Arg Leu Ser Gly Ser
1 5 10 15

Ser Asn Ile Phe
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Leu Gln Pro Gln Leu Arg Ser Phe Phe His Gln His Tyr Leu Gly Gly
1 5 10 15

Gln Glu Pro Thr
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Phe Leu Gln Glu Gln Phe Asn Ser Ile Ala Ala His Val Leu His Cys
1 5 10 15

Thr Asp Ser Gly
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<400> 492

Gln Asp Ile Gln Ser Gln Arg Lys Val Lys Pro Gln Pro Pro Leu Ser
1 5 10 15

Asp Ala Tyr Leu Ser Gly Met Pro Ala Lys Arg Arg Lys Thr Met Gln
20 25 30

Gly Glu Gly Pro Gln Leu Leu Leu Ser Glu Ala Val Ser Arg Ala Ala
35 40 45

Lys Ala
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Val Ser Trp Leu Thr Thr Met Met Gly Leu Arg Leu Gln Val Val Leu
1 5 10 15

Glu His Met Pro Val Gly Pro Asp Ala Ile Leu Arg Tyr Val Arg Arg
20 25 30

Val Gly Asp Pro Pro Gln Pro Leu Pro Glu Glu Pro Met Glu Val Gln
35 40 45

Gly Ala
50

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Pro Asn Met Tyr Asp Asn Val Asn Lys Leu Asn Ala Ser Leu Gln Glu
1 5 10 15

Thr Ser Val Ser
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<210> 495

<211> 20

<212> PRT

<213> Homo sapiens

<400> 495

Ile Ser Ser Thr Lys Gly Met Phe Pro Gly Ser Leu Ala His Thr Thr
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1 5 10 15

Thr Lys Val Phe
20

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<212> PRT
<213> Homo sapiens
<400> 496

Lys Val Phe Asp His Glu Ile Ser Gln Val Pro Glu Asn Asn Phe Ser
1 5 10 15

Val Gln Pro Thr
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Ile Asp Ser Ala Tyr Pro Ala Ser Gly Ser Ile Met Glu Asn Glu Gln
1 5 10 15

Arg Ser Asn Gln
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Met Asn Asn Ile Leu Arg Ile Ile Ala Asp Leu Gln Val Ser Cys Ser
1 5 10 15

Tyr Asp His Leu
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Asp Leu Ala Gly Pro Ser Ala Gly Ser Gly Ser Ala Arg Phe Ser Arg
1 5 10 15

Arg Pro Thr Cys

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Phe Pro Ser Glu Lys Ala Arg His Leu Leu Asp Asp Ser Val Leu Glu
1 5 10 15

Ser Arg Ser Pro
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<400> 501

Leu Gly Ser Ser Glu Ser Ser Glu Phe Ser Glu Glu Met Ser Ser Gly
1 5 10 15

Leu Glu Ser Pro
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<400> 502

Cys Ser Leu Gly Asn Ser Ala Ala Val Pro Thr Met Glu Gly Pro Leu
1 5 10 15

Arg Arg Lys Thr Leu Leu Lys Glu Gly Arg Lys Pro Ala Leu Ser Ser
20 25 30

Trp Thr Arg Tyr Trp Val Ile Leu Ser Gly Ser Thr Leu Leu Tyr Tyr
35 40 45

Gly Ala
50

<210> 503
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<212> PRT
<213> Homo sapiens

<400> 503

His Tyr Lys Ser Thr Pro Gly Lys Lys Val Ser Ile Val Gly Trp Met
Page 110

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Gly Arg Trp Phe Ser Ala Gly Leu Ala Ser Asn Ser Ser Trp Leu Arg
1 5 10 15

Glu Lys Lys Ala
20

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<211> 20

<212> PRT

<213> Homo sapiens

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Val Glu Thr Asp Tyr Asp Gln Tyr Ala Leu Leu Tyr Ser Gln Gly Ser
1 5 10 15

Lys Gly Pro Gly
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<400> 509

Met Ala Thr His His Thr Leu Trp Met Gly Leu Ala Leu Leu Gly Val
1 5 10 15

Leu Gly Asp Leu Gln Ala Ala Pro Glu Ala Gln Val Ser Val Gln Pro
20 25 30

Asn Phe Gln Gln Asp Lys Phe Leu Gly Arg Trp Phe Ser Ala Gly Leu
35 40 45

Ala Ser
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Glu Asp Phe Arg Met Ala Thr Leu Tyr Ser Arg Thr Gln Thr Pro Arg
1 5 10 15

Ala Glu Leu Lys Glu Lys Phe Thr Ala Phe Cys Lys Ala Gln Gly Phe
20 25 30

Thr Glu Asp Thr Ile Val Phe Leu Pro Gln Thr Asp Lys Cys Met Thr
35 40 45

Glu Gln
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Met Phe Leu Val Asn Ser Phe Leu Lys Gly Gly Gly Gly Gly Gly Gly
1 5 10 15

Gly Gly Gly Gly
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<400> 512

Gly Asn Val Leu Gly Gly Leu Ile Ser Gly Ala Gly Gly Gly Gly Gly
1 5 10 15

Gly Gly Gly Gly
20

<210> 513
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<400> 513

Ile Leu Gly Gly Val Ile Ser Ala Ile Ser Glu Ala Ala Ala Gln Tyr
1 5 10 15

Asn Pro Glu Pro
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<400> 514

Glu Ser Glu Glu Val Arg Gln Phe Arg Arg Leu Phe Ala Gln Leu Ala
1 5 10 15

Gly Asp Asp Met
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<213> Homo sapiens

<400> 515

Met Asn Ile Leu Asn Lys Val Val Thr Arg His Pro Asp Leu Lys Thr
1 5 10 15

Asp Gly Phe Gly
20

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<400> 516

Ile Asp Thr Cys Arg Ser Met Val Ala Val Met Asp Ser Asp Thr Thr
1 5 10 15

Gly Lys Leu Gly Phe Glu Glu Phe Lys Tyr Leu Trp Asn Asn Ile Lys
20 25 30

Arg Trp Gln Ala Ile Tyr Lys Gln Phe Asp Thr Asp Arg Ser Gly Thr
35 40 45

Ile Cys
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<400> 517

Gly Phe His Leu Asn Glu His Leu Tyr Asn Met Ile Ile Arg Arg Tyr
1 5 10 15

Ser Asp Glu Ser Gly Asn Met Asp Phe Asp Asn Phe Ile Ser Cys Leu
20 25 30

Val Arg Leu Asp Ala Met Phe Arg Ala Phe Lys Ser Leu Asp Lys Asp
35 40 45

Gly Thr
50

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<400> 518

His Val Ile Glu Asp Ser His Lys Lys Ile Thr Ala Gln Ile Lys Phe
1 5 10 15

Leu Tyr Glu Glu
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<400> 519

Lys Pro Gln His Tyr Pro Ser Ile His Ile Thr Ala Tyr Glu Asn Asp
1 5 10 15

Glu Arg Val Pro
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Asn Ser Asn Pro Glu Leu Val Arg Ala Val Thr Leu Glu Ala Pro Phe
1 5 10 15

Leu Asp Val Leu
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Arg Gly Gly Gly Glu Leu Gly Leu Gln Trp His Ala Asp Gly Arg Leu
1 5 10 15

Thr Lys Lys Leu
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Ser Lys Asp Gly Lys Leu Val Pro Met Thr Val Phe His Lys Thr Asp
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Ser Glu Asp Leu
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Ala Cys Gly Phe Ile Met Asp Thr Asn Ser Asp Pro Lys Asn Cys Pro
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Phe Gln Leu Cys Ser Pro Ile Arg Pro Pro Lys Tyr Tyr Thr Tyr Lys
20 25 30

Phe Ala Glu Gly Lys Leu Phe Glu Glu Thr Gly His Glu Asp Pro Ile
35 40 45

Thr Lys
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Met Asn Trp Asp Leu Phe Phe Thr Met Lys Arg Asn Thr Lys Val Ile
1 5 10 15

Asp Leu Asp Met Phe Lys Asp His Cys Val Leu Phe Leu Lys His Ser
20 25 30

Asn Leu Leu Tyr Val Asn Val Ile Gly Leu Ala Asp Asp Ser Val Arg
35 40 45

Ser Leu
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Lys Glu Gly Ile Leu Pro Glu Arg Ala Glu Glu Ala Lys Leu Lys Ala
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Lys Tyr Pro Ser
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Leu Gly Gln Lys Pro Gly Gly Ser Asp Phe Leu Met Lys Arg Leu Gln
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Lys Gly Gln Lys
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Tyr Phe Asp Ser Gly Asp Tyr Asn Met Ala Lys Ala Lys Met Lys Asn
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Lys Gln Leu Pro
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Ser Ala Gly Pro Asp Lys Asn Leu Val Thr Gly Asp His Ile Pro Thr
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Pro Gln Asp Leu
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Asp Leu Pro Gln Arg Lys Ser Ser Leu Val Thr Ser Lys Leu Ala Gly
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Gly Gln Val Glu
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Lys Glu Gly Ile Leu Pro Glu Arg Ala Glu Glu Ala Lys Leu Lys Ala
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Lys Tyr Pro Ser Leu Gly Gln Lys Pro Gly Gly Ser Asp Phe Leu Met
20 25 30

Lys Arg Leu Gln Lys Gly Gln Lys Tyr Phe Asp Ser Gly Asp Tyr Asn
35 40 45

Met Ala
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Gly Ser Pro Thr Gly Arg Ile Glu Gly Phe Thr Asn Val Lys Glu Leu
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Tyr Gly Lys Ile
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Ala Glu Ala Phe Arg Leu Pro Thr Ala Glu Val Met Phe Cys Thr Leu
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Asn Thr His Lys
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Val Asp Met Asp Lys Leu Leu Gly Gly Gln Ile Gly Leu Glu Asp Phe
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Ile Phe Ala His
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Lys Glu Val Glu Val Phe Lys Ser Glu Asp Ala Leu Gly Leu Thr Ile
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Thr Asp Asn Gly
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Ala Phe Ile Lys Arg Ile Lys Glu Gly Ser Val Ile Asp His Ile His
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Leu Ile Ser Val
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Gln Ser Leu Leu Gly Cys Arg His Tyr Glu Val Ala Arg Leu Leu Lys
1 5 10 15

Glu Leu Pro Arg Gly Arg Thr Phe Thr Leu Lys Leu Thr Glu Pro Arg
20 25 30

Lys Ala Phe Asp Met Ile Ser Gln Arg Ser Ala Gly Gly Arg Pro Gly
35 40 45

Ser Gly
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Ala Thr Val Glu Asp Leu Pro Ser Ala Phe Glu Glu Lys Ala Ile Glu
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Lys Val Asp Asp Leu Leu Glu Ser Tyr Met Gly Ile Arg Asp Thr Glu
20 25 30

Leu Ala Ala Thr Met Val Glu Leu Gly Lys Asp Lys Arg Asn Pro Asp
35 40 45

Glu Leu
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Leu Ala Ala Pro Gln Gly Gly Ser Pro Thr Lys Leu Gln Arg Gly Gly
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Ser Ala Pro Glu
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Ala Thr Ala Thr Leu Gln Arg Pro Gly Ser Leu Ala Ala Gly Ser Arg
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Ala Ser Tyr Ser
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Arg Ser Leu Ser Gln Ser Gln Gly Val Pro Leu Pro Pro Ala His Thr
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Gly Thr Tyr Arg
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Ala Thr Phe Gln Arg Ala Ser Tyr Ala Ala Gly Pro Ala Ser Asn Tyr
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Ala Asp Pro Tyr
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Asp Asn Lys Ile Lys Ala Glu Ile Arg Arg Gln Gly Gly Ile Gln Leu
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Leu Val Asp Leu
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Leu Trp Asn Leu Ser Ser Cys Asp Ala Leu Lys Met Pro Ile Ile Gln
1 5 10 15

Asp Ala Leu Ala Val Leu Thr Asn Ala Val Ile Ile Pro His Ser Gly
20 25 30

Trp Glu Asn Ser Pro Leu Gln Asp Asp Arg Lys Ile Gln Leu His Ser
35 40 45

Ser Gln
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Ser Pro Gly Glu Glu Ala Arg Arg Arg Met Arg Glu Cys Asp Gly Leu
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Thr Asp Ala Leu Leu Tyr Val Ile Gln Ser Ala Leu Gly Ser Ser Glu
 20 25 30

Ile Asp Ser Lys Thr Val Glu Asn Cys Val Cys Ile Leu Arg Asn Leu
 35 40 45

Ser Tyr
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Lys Lys Ala Pro Pro Leu Val Glu Asn Glu Glu Ala Glu Pro Gly Arg
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Gly Gly Leu Gly
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Gly Gly Gly Gly Ser Gly Gly Pro Gln Met Gly Leu Pro Pro Pro Pro
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Pro Ala Leu Arg
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His Gly Ser Pro Thr Gly Arg Ile Glu Gly Phe Thr Asn Val Lys Glu
 1 5 10 15

Leu Tyr Gly Lys
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Thr Leu Asn Thr His Lys Val Asp Met Asp Lys Leu Leu Gly Gly Gln
1 5 10 15

Ile Gly Leu Glu
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Ser Glu Asp Ala Leu Gly Leu Thr Ile Thr Asp Asn Gly Ala Gly Tyr
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Ala Phe Ile Lys
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Asn Gly Gln Ser Leu Leu Gly Cys Arg His Tyr Glu Val Ala Arg Leu
1 5 10 15

Leu Lys Glu Leu Pro Arg Gly Arg Thr Phe Thr Leu Lys Leu Thr Glu
20 25 30

Pro Arg Lys Ala Phe Asp Met Ile Ser Gln Arg Ser Ala Gly Gly Arg
35 40 45

Pro Gly
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<400> 551

Arg Leu Arg Ser Arg Gly Pro Ala Thr Val Glu Asp Leu Pro Ser Ala
1 5 10 15

Phe Glu Glu Lys Ala Ile Glu Lys Val Asp Asp Leu Leu Glu Ser Tyr
20 25 30

Met Gly Ile Arg Asp Thr Glu Leu Ala Ala Thr Met Val Glu Leu Gly
Page 123

35

40

45

Lys Asp
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Ala Ile Leu Tyr Ser Lys Phe Lys Pro Gln Lys Met Arg Glu His Leu
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Glu Leu Phe Trp
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Ala Ala Glu Gln Ala His Leu Trp Ala Glu Leu Val Phe Leu Tyr Asp
1 5 10 15

Lys Tyr Glu Glu
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His Pro Thr Asp Ala Trp Lys Glu Gly Gln Phe Lys Asp Ile Ile Thr
1 5 10 15

Lys Val Ala Asn
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Phe Lys Pro Leu Leu Leu Asn Asp Leu Leu Met Val Leu Ser Pro Arg
1 5 10 15

Leu Asp His Thr

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Pro Tyr Leu Arg Ser Val Gln Asn His Asn Asn Lys Ser Val Asn Glu
1 5 10 15

Ser Leu Asn Asn
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Glu Lys Arg Glu Cys Phe Gly Ala Cys Leu Phe Thr Cys Tyr Asp Leu
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Leu Arg Pro Asp Val Val Leu Glu Thr Ala Trp Arg His Asn Ile Met
20 25 30

Asp Phe Ala Met Pro Tyr Phe Ile Gln Val Met Lys Glu Tyr Leu Thr
35 40 45

Lys Val
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Lys Glu Glu Glu Gln Ala Thr Glu Thr Gln Pro Ile Val Tyr Gly Gln
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Pro Gln Leu Met Leu Thr Ala Gly Pro Ser Val Ala Val Pro Pro Gln
20 25 30

Ala Pro Phe Gly Tyr Gly Tyr Thr Ala Pro Pro Tyr Gly Gln Pro Gln
35 40 45

Pro Gly
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Gly Ser Arg Ser Arg Lys Val Lys Glu Gln Tyr Gln Asp Val Pro Met
1 5 10 15

Pro Glu Glu Lys
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Ser Asn Pro Lys Gly Val Glu Trp Leu Trp His Ser Ile Val Ile Arg
1 5 10 15

Met Tyr Leu Ser
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Leu Ile Ala Lys Ser Val Arg Asn Tyr Thr Gln Glu Ala Ser Leu Gly
1 5 10 15

Ala Leu Gln Asn
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Leu Thr Ala Gly Ser Gly Pro Met Pro Thr Ser Val Ala Gln Thr Val
1 5 10 15

Val Gln Lys Glu
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Ser Gly Leu Gln His Thr Arg Lys Met Leu His Val Gly Asp Pro Ser
1 5 10 15

Val Lys Lys Thr
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Ala Ile Ser Leu Leu Arg Asn Leu Ser Arg Asn Leu Ser Leu Gln Asn
1 5 10 15

Glu Ile Ala Lys Glu Thr Leu Pro Asp Leu Val Ser Ile Ile Pro Asp
20 25 30

Thr Val Pro Ser Thr Asp Leu Leu Ile Glu Thr Thr Ala Ser Ala Cys
35 40 45

Tyr Thr
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Met Pro Glu Glu Lys Ser Asn Pro Lys Gly Val Glu Trp Leu Trp His
1 5 10 15

Ser Ile Val Ile Arg Met Tyr Leu Ser Leu Ile Ala Lys Ser Val Arg
20 25 30

Asn Tyr Thr Gln Glu Ala Ser Leu Gly Ala Leu Gln Asn Leu Thr Ala
35 40 45

Gly Ser
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Ala Leu Lys Ala Ala Phe Asp Val Asn Asn Lys Asp Val Ser Val Met
 1 5 10 15

Met Ser Glu Met
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Asp Val Asn Ala Ile Ala Gly Thr Leu Lys Leu Tyr Phe Arg Glu Leu
 1 5 10 15

Pro Glu Pro Leu
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<400> 568

Phe Thr Asp Glu Phe Tyr Pro Asn Phe Ala Glu Gly Ile Ala Leu Ser
 1 5 10 15

Asp Pro Val Ala
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Lys Glu Ser Cys Met Leu Asn Leu Leu Leu Ser Leu Pro Glu Ala Asn
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Leu Leu Thr Phe
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Leu Phe Leu Leu Asp His Leu Lys Arg Val Ala Glu Lys Glu Ala Val
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Asn Lys Met Ser
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Thr Phe Leu Phe Leu Leu Asp His Leu Lys Arg Val Ala Glu Lys Glu
1 5 10 15

Ala Val Asn Lys Met Ser Leu His Asn Leu Ala Thr Val Phe Gly Pro
20 25 30

Thr Leu Leu Arg Pro Ser Glu Lys Glu Ser Lys Leu Pro Ala Asn Pro
35 40 45

Ser Gln
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Ala Leu Lys Ala Ala Phe Asp Val Asn Asn Lys Asp Val Ser Val Met
1 5 10 15

Met Ser Glu Met Asp Val Asn Ala Ile Ala Gly Thr Leu Lys Leu Tyr
20 25 30

Phe Arg Glu Leu Pro Glu Pro Leu Phe Thr Asp Glu Phe Tyr Pro Asn
35 40 45

Phe Ala
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Ser Glu Leu Val Gln Lys Ala Lys Leu Ala Glu Gln Ala Glu Arg Tyr
1 5 10 15

Asp Asp Met Ala
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His Glu Leu Ser Asn Glu Glu Arg Asn Leu Leu Ser Val Ala Tyr Lys
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Asn Val Val Gly
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Trp Arg Val Ile Ser Ser Ile Glu Gln Lys Thr Glu Arg Asn Glu Lys
1 5 10 15

Lys Gln Gln Met
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Ile Glu Ala Glu Leu Gln Asp Ile Cys Asn Asp Val Leu Glu Leu Leu
1 5 10 15

Asp Lys Tyr Leu
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Gly Leu Ala Leu Asn Phe Ser Val Phe Tyr Tyr Glu Ile Leu Asn Ser
1 5 10 15

Pro Glu Lys Ala
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Leu Lys Met Lys Gly Asp Tyr Phe Arg Tyr Leu Ser Glu Val Ala Ser
1 5 10 15

Gly Asp Asn Lys Gln Thr Thr Val Ser Asn Ser Gln Gln Ala Tyr Gln
20 25 30

Glu Ala Phe Glu Ile Ser Lys Lys Glu Met Gln Pro Thr His Pro Ile
35 40 45

Arg Leu
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Cys Ser Leu Ala Lys Thr Ala Phe Asp Glu Ala Ile Ala Glu Leu Asp
1 5 10 15

Thr Leu Asn Glu Glu Ser Tyr Lys Asp Ser Thr Leu Ile Met Gln Leu
20 25 30

Leu Arg Asp Asn Leu Thr Leu Trp Thr Ser Glu Asn Gln Gly Asp Glu
35 40 45

Gly Asp
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Met Asp Lys Asn Glu Leu Val Gln Lys Ala Lys Leu Ala Glu Gln Ala
1 5 10 15

Glu Arg Tyr Asp
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Asp Met Ala Ala Cys Met Lys Ser Val Thr Glu Gln Gly Ala Glu Leu
1 5 10 15

Ser Asn Glu Glu
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Arg Asn Leu Leu Ser Val Ala Tyr Lys Asn Val Val Gly Ala Arg Arg
1 5 10 15

Ser Ser Trp Arg
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<400> 583

Ile Glu Gln Lys Thr Glu Gly Ala Glu Lys Lys Gln Gln Met Ala Arg
1 5 10 15

Glu Tyr Arg Glu
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Cys Asn Asp Val Leu Ser Leu Leu Glu Lys Phe Leu Ile Pro Asn Ala
1 5 10 15

Ser Gln Ala Glu
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Met Lys Gly Asp Tyr Tyr Arg Tyr Leu Ala Glu Val Ala Ala Gly Asp
1 5 10 15

Asp Lys Lys Gly Ile Val Asp Gln Ser Gln Gln Ala Tyr Gln Glu Ala
20 25 30

Phe Glu Ile Ser Lys Lys Glu Met Gln Pro Thr His Pro Ile Arg Leu
35 40 45

Gly Leu
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Ser Pro Glu Lys Ala Cys Ser Leu Ala Lys Thr Ala Phe Asp Glu Ala
1 5 10 15

Ile Ala Glu Leu Asp Thr Leu Ser Glu Glu Ser Tyr Lys Asp Ser Thr
20 25 30

Leu Ile Met Gln Leu Leu Arg Asp Asn Leu Thr Leu Trp Thr Ser Asp
35 40 45

Thr Gln
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Pro Phe Phe Trp Leu Glu Asn Lys Asp Val Ile Gly Val Leu Glu Lys
1 5 10 15

Gly Asp Arg Leu
20

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Pro Lys Pro Asp Leu Cys Pro Pro Val Leu Tyr Thr Leu Met Thr Arg
1 5 10 15

Cys Trp Asp Tyr
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Cys Ser Leu Ser Asp Val Tyr Gln Met Glu Lys Asp Ile Ala Met Glu
1 5 10 15

Gln Glu Arg Asn
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Arg Pro Pro Pro Gln Thr Asn Leu Leu Ala Pro Lys Leu Gln Phe Gln
1 5 10 15

Val Pro Glu Gly
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Gln Met Val Glu Asp Tyr Gln Trp Leu Arg Gln Glu Glu Lys Ser Leu
1 5 10 15

Asp Pro Met Val
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Pro Glu Lys Glu Val Gly Tyr Leu Glu Phe Thr Gly Pro Pro Gln Lys
1 5 10 15

Pro Pro Arg Leu Gly Ala Gln Ser Ile Gln Pro Thr Ala Asn Leu Asp
20 25 30

Arg Thr Asp Asp Leu Val Tyr Leu Asn Val Met Glu Leu Val Arg Ala
35 40 45

Val Leu
50

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Pro Glu Gly Tyr Val Val Val Val Lys Asn Val Gly Leu Thr Leu Arg
1 5 10 15

Lys Leu Ile Gly Ser Val Asp Asp Leu Leu Pro Ser Leu Pro Ser Ser
20 25 30

Ser Arg Thr Glu Ile Glu Gly Thr Gln Lys Leu Leu Asn Lys Asp Leu
35 40 45

Ala Glu
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Leu Phe Thr Pro Leu Asn Met Val Val Gln Ala Thr Gly Gly Pro Glu
1 5 10 15

Leu Ala Ser Ser
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Met Gly Ala Thr Met Glu Gln Asp Leu Tyr Gln Leu Ala Glu Ser Val
1 5 10 15

Ala Asn Val Ala
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Asn Ile Tyr Thr Arg Gly Ser His Leu Asp Gln Gly Glu Ala Ala Val
1 5 10 15

Ala Phe Lys Pro
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Glu Ile Leu Asp Asp Arg Lys Gln Trp Trp Lys Val Arg Asn Ala Ser
1 5 10 15

Gly Asp Ser Gly
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Pro Tyr Thr His Thr Ile Gln Lys Gln Arg Met Glu Tyr Gly Pro Arg
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Pro Ala Asp Thr
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Ser Ser Asp Ser Gly Gly Ser Ile Val Arg Asp Ser Gln Arg His Lys
1 5 10 15

Gln Leu Pro Val Asp Arg Arg Lys Ser Gln Met Glu Glu Val Gln Asp
20 25 30

Glu Leu Ile His Arg Leu Thr Ile Gly Arg Ser Ala Ala Gln Lys Lys
35 40 45

Phe His
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Ile Thr Tyr Asp Ser Thr Pro Glu Asp Val Lys Thr Trp Leu Gln Ser
1 5 10 15

Lys Gly Phe Asn Pro Val Thr Val Asn Ser Leu Gly Val Leu Asn Gly
20 25 30

Ala Gln Leu Phe Ser Leu Asn Lys Asp Glu Leu Arg Thr Val Cys Pro
35 40 45

Glu Gly
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Leu Leu Met Glu Lys Ile Arg Asp Pro Phe Ile His Glu Ile Ser Lys
1 5 10 15

Ile Ala Met Gly
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Met Arg Ser Ala Ser Gln Phe Thr Arg Asp Phe Ile Arg Asp Ser Gly
1 5 10 15

Val Val Ser Leu
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Ile Glu Thr Leu Leu Asn Tyr Pro Ser Ser Arg Val Arg Thr Ser Phe
1 5 10 15

Leu Glu Asn Met

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Ile Arg Met Ala Pro Pro Tyr Pro Asn Leu Asn Ile Ile Gln Thr Tyr
1 5 10 15

Ile Cys Lys Val
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Cys Glu Glu Thr Leu Ala Tyr Ser Val Asp Ser Pro Glu Gln Leu Ser
1 5 10 15

Gly Ile Arg Met
20

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Leu Thr Thr Thr Thr Asp Tyr His Thr Leu Val Ala Asn Tyr Met Ser
1 5 10 15

Gly Phe Leu Ser Leu Leu Ala Thr Gly Asn Ala Lys Thr Arg Phe His
20 25 30

Val Leu Lys Met Leu Leu Asn Leu Ser Glu Asn Leu Phe Met Thr Lys
35 40 45

Glu Leu
50

<210> 607
<211> 50
<212> PRT
<213> Homo sapiens

<400> 607

Phe Ile Gly Leu Phe Asn Arg Glu Glu Thr Asn Asp Asn Ile Gln Ile
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1 5 10 15

Val Leu Ala Ile Phe Glu Asn Ile Gly Asn Asn Ile Lys Lys Glu Thr
20 25 30

Val Phe Ser Asp Asp Asp Phe Asn Ile Glu Pro Leu Ile Ser Ala Phe
35 40 45

His Lys
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<400> 611

Ser Pro Tyr Ser Lys Ser Gly Pro Ala Leu Pro Pro Glu Gly Thr Leu
1 5 10 15

Ala Arg Ser Pro
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<213> Homo sapiens

<400> 612

Leu Arg Asn Leu Val Tyr Gly Lys Ala Asn Asp Asp Asn Lys Ile Ala
1 5 10 15

Leu Lys Asn Cys
20

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<213> Homo sapiens

<400> 613

Asn Leu Ser Ser Cys Asp Ala Leu Lys Met Pro Ile Ile Gln Asp Ala
1 5 10 15

Leu Ala Val Leu Thr Asn Ala Val Ile Ile Pro His Ser Gly Trp Glu
20 25 30

Asn Ser Pro Leu Gln Asp Asp Arg Lys Ile Gln Leu His Ser Ser Gln
35 40 45

Val Leu
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Val Ser Ser Pro Gly Glu Glu Ala Arg Arg Arg Met Arg Glu Cys Asp
1 5 10 15

Gly Leu Thr Asp Ala Leu Leu Tyr Val Ile Gln Ser Ala Leu Gly Ser
20 25 30

Ser Glu Ile Asp Ser Lys Thr Val Glu Asn Cys Val Cys Ile Leu Arg
35 40 45

Asn Leu
50

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<400> 615

Pro Ile Asn Ile Val Val Ser Ser Ala Gly Leu Ser Pro Ile Arg Val
1 5 10 15

Thr Ser Pro Pro
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Val His Ala Ser Glu Gln Tyr Ser Lys His Ser Gln Glu Leu Tyr Ala
1 5 10 15

Thr Ala Thr Leu
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Ser Pro Gly Val Asp Ser Val Pro Leu Gln Arg Thr Gly Ser Gln His
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Gly Pro Gln Asn
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Ala Ala Gly Pro Ala Ser Asn Tyr Ala Asp Pro Tyr Arg Gln Leu Gln
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Tyr Cys Pro Ser
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Ile Gln Met Leu Gln His Gln Phe Pro Ser Val Gln Ser Asn Ala Ala
1 5 10 15

Ala Tyr Leu Gln
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Ser Ser Cys Asp Ala Leu Lys Met Pro Ile Ile Gln Asp Ala Leu Ala
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Val Leu Thr Asn Ala Val Ile Ile Pro His Ser Gly Trp Glu Asn Ser
20 25 30

Pro Leu Gln Asp Asp Arg Lys Ile Gln Leu His Ser Ser Gln Val Leu
35 40 45

Arg Asn
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Asn Val Ser Ser Pro Gly Glu Glu Ala Arg Arg Arg Met Arg Glu Cys
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Asp Gly Leu Thr Asp Ala Leu Leu Tyr Val Ile Gln Ser Ala Leu Gly
20 25 30

Ser Ser Glu Ile Asp Ser Lys Thr Val Glu Asn Cys Val Cys Ile Leu
35 40 45

Arg Asn
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Asn Val Ser Ser Pro Gly Glu Glu Ala Arg Arg Arg Met Arg Glu Cys
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Asp Gly Leu Thr
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Gln Gly Gln His Met Gly Thr Asp Glu Leu Asp Gly Leu Leu Cys Gly
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Glu Ala Asn Gly
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Leu Trp His Pro Ser Ile Val Lys Pro Tyr Leu Thr Leu Leu Ser Glu
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Cys Ser Asn Pro
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Leu Arg Ile Asp Asn Asp Arg Val Ala Cys Ala Val Ala Thr Ala Leu
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Arg Asn Met Ala
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Thr Ala Val Cys Cys Thr Leu His Glu Val Ile Thr Lys Asn Met Glu
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Asn Ala Lys Ala
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Ile Ser Leu Lys Glu Arg Lys Thr Asp Tyr Glu Cys Thr Gly Ser Asn
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Ala Thr Tyr His Gly Ala Lys Gly Glu His Thr Ser Arg Lys Asp Ala
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Met Thr Ala Gln Asn Thr Gly Ile Ser Thr Leu Tyr Arg Asn Ser Tyr
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Gly Ala
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Ser Ala Gln Pro Val Pro Gln Glu Pro Ser Arg Lys Asp Tyr Glu Thr
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Tyr Gln Pro Phe Gln Asn Ser Thr Arg Asn Tyr Asp Glu Ser Phe Phe
20 25 30

Glu Asp Gln Val His His Arg Pro Pro Ala Ser Glu Tyr Thr Met His
35 40 45

Leu Gly
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Met Ala Leu Leu Thr Ala Ala Ala Arg Leu Leu Gly Thr Lys Asn Ala
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Ser Cys Leu Val
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Leu Ala Ala Arg His Ala Ser Ala Ser Ser Thr Asn Leu Lys Asp Ile
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Leu Ala Asp Leu
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Ile Pro Lys Glu Gln Ala Arg Ile Lys Thr Phe Arg Gln Gln His Gly
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Lys Thr Val Val
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Gly Gln Ile Thr Val Asp Met Met Tyr Gly Gly Met Arg Gly Met Lys
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Gly Leu Val Tyr
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Glu Thr Ser Val Leu Asp Pro Asp Glu Gly Ile Arg Phe Arg Gly Phe
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Ser Ile Pro Glu
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Gly Met Lys Gly Leu Val Tyr Glu Thr Ser Val Leu Asp Pro Asp Glu
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Gly Ile Arg Phe Arg Gly Phe Ser Ile Pro Glu Cys Gln Lys Leu Leu
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Pro Lys Ala Lys Gly Gly Glu Glu Pro Leu Pro Glu Gly Leu Phe Trp
35 40 45

Leu Leu
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Met Ala Leu Leu Thr Ala Ala Ala Arg Leu Leu Gly Thr Lys Asn Ala
1 5 10 15

Ser Cys Leu Val Leu Ala Ala Arg His Ala Ser Ala Ser Ser Thr Asn
20 25 30

Leu Lys Asp Ile Leu Ala Asp Leu Ile Pro Lys Glu Gln Ala Arg Ile
35 40 45

Lys Thr
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Leu Ala Ala Val Tyr Lys Ala Leu Ser Asp His His Val Tyr Leu Glu
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Gly Thr Leu Leu
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Lys Pro Asn Met Val Thr Pro Gly His Ala Cys Pro Ile Lys Tyr Thr
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Pro Glu Glu Ile
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Ala Met Ala Thr Val Thr Ala Leu Arg Arg Thr Val Pro Pro Ala Val
1 5 10 15

Pro Gly Val Thr
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Phe Leu Ser Gly Gly Gln Ser Glu Glu Glu Ala Ser Phe Asn Leu Asn
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Ala Ile Asn Arg
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Cys Pro Leu Pro Arg Pro Trp Ala Leu Thr Phe Ser Tyr Gly Arg Ala
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Leu Gln Ala Ser
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<400> 641

Ala Leu Asn Ala Trp Arg Gly Gln Arg Asp Asn Ala Gly Ala Ala Thr
1 5 10 15

Glu Glu Phe Ile Lys Arg Ala Glu Val Asn Gly Leu Ala Ala Gln Gly
20 25 30

Lys Tyr Glu Gly Ser Gly Glu Asp Gly Gly Ala Ala Ala Gln Ser Leu
35 40 45

Tyr Ile
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Ile Lys Tyr Thr Pro Glu Glu Ile Ala Met Ala Thr Val Thr Ala Leu
1 5 10 15

Arg Arg Thr Val Pro Pro Ala Val Pro Gly Val Thr Phe Leu Ser Gly
20 25 30

Gly Gln Ser Glu Glu Glu Ala Ser Phe Asn Leu Asn Ala Ile Asn Arg
35 40 45

Cys Pro
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Val Asp Asn Pro Gly His Pro Tyr Ile Met Thr Val Gly Cys Val Ala
1 5 10 15

Gly Asp Glu Glu
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Leu Asp Pro Asn Tyr Val Leu Ser Ser Arg Val Arg Thr Gly Arg Ser
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Ile Arg Gly Phe
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Glu Ala Glu Gln Gln Gln Leu Ile Asp Asp His Phe Leu Phe Asp Lys
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Pro Val Ser Pro
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Glu Asp Arg His Gly Gly Tyr Lys Pro Ser Asp Glu His Lys Thr Asp
1 5 10 15

Leu Asn Pro Asp
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<212> PRT

<213> Homo sapiens

<400> 647

Ala Arg Gly Ile Trp His Asn Asp Asn Lys Thr Phe Leu Val Trp Val
1 5 10 15

Asn Glu Glu Asp
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<213> Homo sapiens

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Thr Arg Phe Cys Thr Gly Leu Thr Gln Ile Glu Thr Leu Phe Lys Ser
1 5 10 15

Lys Asp Tyr Glu Phe Met Trp Asn Pro His Leu Gly Tyr Ile Leu Thr
20 25 30

Cys Pro Ser Asn Leu Gly Thr Gly Leu Arg Ala Gly Val His Ile Lys
35 40 45

Leu Pro
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<400> 649

Lys His Glu Lys Phe Ser Glu Val Leu Lys Arg Leu Arg Leu Gln Lys
1 5 10 15

Arg Gly Thr Gly Gly Val Asp Thr Ala Ala Val Gly Gly Val Phe Asp
20 25 30

Val Ser Asn Ala Asp Arg Leu Gly Phe Ser Glu Val Glu Leu Val Gln
35 40 45

Met Val
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Met Asp Cys Cys Thr Glu Asn Ala Cys Ser Lys Pro Asp Asp Asp Ile
1 5 10 15

Leu Asp Ile Pro
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<400> 651

Leu Asp Asp Pro Gly Ala Asn Ala Ala Ala Lys Ile Gln Ala Ser
1 5 10 15

Phe Arg Gly His

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<400> 652

Met Ala Arg Lys Lys Ile Lys Ser Gly Glu Arg Gly Arg Lys Gly Pro
1 5 10 15

Gly Pro Gly Gly
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<400> 653

Ala Lys Ile Gln Ala Ser Phe Arg Gly His Met Ala Arg Lys Lys Ile
1 5 10 15

Lys Ser Gly Glu Arg Gly Arg Lys Gly Pro Gly Pro Gly Gly Met Ala
20 25 30

Arg Lys Lys Ile Lys Ser Gly Glu Arg Gly Arg Lys Gly Pro Gly Pro
35 40 45

Gly Gly
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<210> 654
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<400> 654

Met Ala Ser Ala Thr Asp Ser Arg Tyr Gly Gln Lys Glu Ser Ser Asp
1 5 10 15

Gln Asn Phe Asp
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<210> 655
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<212> PRT
<213> Homo sapiens

<400> 655

Tyr Met Phe Lys Ile Leu Ile Ile Gly Asn Ser Ser Val Gly Lys Thr
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1 5 10 15

Ser Phe Leu Phe
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<210> 656
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<212> PRT
<213> Homo sapiens
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Arg Tyr Ala Asp Asp Ser Phe Thr Pro Ala Phe Val Ser Thr Val Gly
1 5 10 15

Ile Asp Phe Lys
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<213> Homo sapiens
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Val Lys Thr Ile Tyr Arg Asn Asp Lys Arg Ile Lys Leu Gln Ile Trp
1 5 10 15

Asp Thr Ala Gly
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<210> 658
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Gln Glu Arg Tyr Arg Thr Ile Thr Thr Ala Tyr Tyr Arg Gly Ala Met
1 5 10 15

Gly Phe Ile Leu
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<400> 659

Val Lys Thr Ile Tyr Arg Asn Asp Lys Arg Ile Lys Leu Gln Ile Trp
1 5 10 15

Asp Thr Ala Gly Gln Glu Arg Tyr Arg Thr Ile Thr Thr Ala Tyr Tyr
Page 152

20 25 30
 Arg Gly Ala Met Gly Phe Ile Leu Met Tyr Asp Ile Thr Asn Glu Glu
 35 40 45

Ser Phe
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<210> 660
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Thr Asp Ser Arg Tyr Gly Gln Lys Glu Ser Ser Asp Gln Asn Phe Asp
 1 5 10 15

Tyr Met Phe Lys Ile Leu Ile Ile Gly Asn Ser Ser Val Gly Lys Thr
 20 25 30

Ser Phe Leu Phe Arg Tyr Ala Asp Asp Ser Phe Thr Pro Ala Phe Val
 35 40 45

Ser Thr
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His Ala Pro Ala Val Thr Gln His Ala Pro Tyr Phe Lys Gly Thr Ala
 1 5 10 15

Val Val Asn Gly
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Glu Phe His Asp Val Asn Cys Glu Val Val Ala Val Ser Val Asp Ser
 1 5 10 15

His Phe Ser His
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<400> 663

Leu Ala Leu Arg Gly Leu Phe Ile Ile Asp Pro Asn Gly Val Ile Lys
1 5 10 15

His Leu Ser Val
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Ser Pro Thr Ile Lys Pro Ser Pro Ala Ala Ser Lys Glu Tyr Phe Gln
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Lys Val Asn Gln
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Arg Ala Ser Val Ala Arg His Val Ser Ala Ile Pro Trp Gly Ile Ser
1 5 10 15

Ala Thr Ala Ala Leu Arg Pro Ala Ala Cys Gly Arg Thr Ser Leu Thr
20 25 30

Asn Leu Leu Cys Ser Gly Ser Ser Gln Ala Lys Leu Phe Ser Thr Ser
35 40 45

Ser Ser
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<400> 666

Glu Val Val Ala Val Ser Val Asp Ser His Phe Ser His Leu Ala Trp
1 5 10 15

Ile Asn Thr Pro Arg Lys Asn Gly Gly Leu Gly His Met Asn Ile Ala
 20 25 30

Leu Leu Ser Asp Leu Thr Lys Gln Ile Ser Arg Asp Tyr Gly Val Leu
 35 40 45

Leu Glu
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<210> 667
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 <212> PRT
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<400> 667

Met Ala Met Ser Ser Gly Gly Ser Gly Gly Gly Val Pro Glu Gln Glu
 1 5 10 15

Asp Ser Val Leu
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<210> 668
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<400> 668

Lys Pro Lys Thr Thr Pro Lys Arg Lys Pro Ala Lys Lys Asn Lys Ser
 1 5 10 15

Gln Lys Lys Asn
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<210> 669
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<400> 669

Glu Thr Cys Val Val Val Tyr Thr Gly Tyr Gly Asn Arg Glu Glu Gln
 1 5 10 15

Asn Leu Ser Asp
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<210> 670
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<400> 670

Asp Asn Ile Lys Pro Lys Ser Ala Pro Trp Asn Ser Phe Leu Pro Pro
 1 5 10 15

Pro Pro Pro Met
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<210> 671
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<400> 671

Pro Ile Ile Pro Pro Pro Pro Ile Cys Pro Asp Ser Leu Asp Asp
 1 5 10 15

Ala Asp Ala Leu
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<210> 672
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<400> 672

Tyr Gly Asn Arg Glu Glu Gln Asn Leu Ser Asp Leu Leu Ser Pro Ile
 1 5 10 15

Cys Glu Val Ala Asn Asn Ile Glu Gln Asn Ala Gln Glu Asn Glu Asn
 20 25 30

Glu Ser Gln Val Ser Thr Asp Glu Ser Glu Asn Ser Arg Ser Pro Gly
 35 40 45

Asn Lys
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<210> 673
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<400> 673

Lys Pro Lys Thr Thr Pro Lys Arg Lys Pro Ala Lys Lys Asn Lys Ser
 1 5 10 15

Gln Lys Lys Asn Thr Ala Ala Ser Leu Gln Gln Trp Lys Val Gly Asp
 20 25 30

Lys Cys Ser Ala Ile Trp Ser Glu Asp Gly Cys Ile Tyr Pro Ala Thr
 35 40 45

Ile Ala
50

<210> 674
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<400> 674

Gly Glu Thr Ser Tyr Ile Arg Val Tyr Pro Glu Arg Ser Thr Ser Tyr
1 5 10 15

Gly Tyr Ser Arg
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<210> 675
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<400> 675

Ser Arg Ser Gly Ser Arg Gly Arg Asp Ser Pro Tyr Gln Ser Arg Gly
1 5 10 15

Ser Pro His Tyr
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<210> 676
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<212> PRT
<213> Homo sapiens

<400> 676

Arg Asp Ser Pro Tyr Gln Ser Arg Gly Ser Pro His Tyr Phe Ser Pro
1 5 10 15

Phe Arg Pro Tyr
20

<210> 677
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<400> 677

Met Leu Pro Gly Leu Ala Leu Leu Leu Leu Ala Ala Trp Thr Ala Arg
1 5 10 15

Ala Leu Glu Val
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<210> 678
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<400> 678

Thr Cys Ile Asp Thr Lys Glu Gly Ile Leu Gln Tyr Cys Gln Glu Val
1 5 10 15

Tyr Pro Glu Leu
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<210> 679
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<400> 679

Glu Phe Val Ser Asp Ala Leu Leu Val Pro Asp Lys Cys Lys Phe Leu
1 5 10 15

His Gln Glu Arg
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<210> 680
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<400> 680

Gly Val Glu Phe Val Cys Cys Pro Leu Ala Glu Glu Ser Asp Asn Val
1 5 10 15

Asp Ser Ala Asp
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<210> 681
<211> 20
<212> PRT
<213> Homo sapiens

<400> 681

Asn Val Asp Ser Ala Asp Ala Glu Glu Asp Asp Ser Asp Val Trp Trp
1 5 10 15

Gly Gly Ala Asp
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<210> 682
<211> 50
<212> PRT

<213> Homo sapiens

<400> 682

Gln Tyr Cys Gln Glu Val Tyr Pro Glu Leu Gln Ile Thr Asn Val Val
1 5 10 15

Glu Ala Asn Gln Pro Val Thr Ile Gln Asn Trp Cys Lys Arg Gly Arg
20 25 30

Lys Gln Cys Lys Thr His Pro His Phe Val Ile Pro Tyr Arg Cys Leu
35 40 45

Val Gly
50

<210> 683

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<212> PRT

<213> Homo sapiens

<400> 683

Pro Asp Lys Cys Lys Phe Leu His Gln Glu Arg Met Asp Val Cys Glu
1 5 10 15

Thr His Leu His Trp His Thr Val Ala Lys Glu Thr Cys Ser Glu Lys
20 25 30

Ser Thr Asn Leu His Asp Tyr Gly Met Leu Leu Pro Cys Gly Ile Asp
35 40 45

Lys Phe
50

<210> 684

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<212> PRT

<213> Homo sapiens

<400> 684

Met Ala Arg Gly Asn Gln Arg Glu Leu Ala Arg Gln Lys Asn Met Lys
1 5 10 15

Lys Thr Gln Glu
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<210> 685

<211> 20

<212> PRT

<213> Homo sapiens

<400> 685

Ile Ser Lys Gly Lys Arg Lys Glu Asp Ser Leu Thr Ala Ser Gln Arg
1 5 10 15

Lys Gln Arg Asp
20

<210> 686
<211> 20
<212> PRT
<213> Homo sapiens

<400> 686

Ser Glu Ile Met Gln Glu Lys Gln Lys Ala Ala Asn Glu Lys Lys Ser
1 5 10 15

Met Gln Thr Arg
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<210> 687
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<212> PRT
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<400> 687

Met Ala Arg Gly Asn Gln Arg Glu Leu Ala Arg Gln Lys Asn Met Lys
1 5 10 15

Lys Thr Gln Glu Ile Ser Lys Gly Lys Arg Lys Glu Asp Ser Leu Thr
20 25 30

Ala Ser Gln Arg Lys Gln Arg Asp Ser Glu Ile Met Gln Glu Lys Gln
35 40 45

Lys Ala
50

<210> 688
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<212> PRT
<213> Homo sapiens

<400> 688

Lys Asn Met Lys Lys Thr Gln Glu Ile Ser Lys Gly Lys Arg Lys Glu
1 5 10 15

Asp Ser Leu Thr Ala Ser Gln Arg Lys Gln Arg Asp Ser Glu Ile Met
20 25 30

Gln Glu Lys Gln Lys Ala Ala Asn Glu Lys Lys Ser Met Gln Thr Arg
35 40 45

Glu Lys
50

<210> 689
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<400> 689

Pro Gln Lys Asn Val Val Thr His Arg Leu His Leu Asn Arg Phe Ser
1 5 10 15

Val Ser Gly Thr Ala Thr Thr Tyr Ser Gln Ser Ser Ala Ser Thr Tyr
20 25 30

Val Pro Thr Val Cys Asn Gly Arg Glu Val Leu Asp Ser Thr Thr Ser
35 40 45

Ser Leu
50

<210> 690
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<213> Homo sapiens

<400> 690

Gln Lys Asn Val Val Thr His Arg Leu His Leu Asn Arg Phe Ser Val
1 5 10 15

Ser Gly Thr Ala Thr Thr Tyr Ser Gln Ser Ser Ala Ser Thr Tyr Val
20 25 30

Pro Thr Val Cys Asn Gly Arg Glu
35 40

<210> 691
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<212> PRT
<213> Homo sapiens

<400> 691

Lys Asn Val Val Thr His Arg Leu His Leu Asn Arg Phe Ser Val Ser
1 5 10 15

Gly Thr Ala Thr Thr Tyr Ser Gln Ser Ser Ala Ser Thr Tyr Val Pro
20 25 30

Thr Val Cys

35

<210> 692
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<400> 692

Asn Val Val Thr His Arg Leu His Leu Asn Arg Phe Ser Val Ser Gly
1 5 10 15

Thr Ala Thr Thr Tyr Ser Gln Ser Ser Ala Ser Thr Tyr Val
20 25 30

<210> 693
<211> 25
<212> PRT
<213> Homo sapiens

<400> 693

Asn Val Val Thr His Arg Leu His Leu Asn Arg Phe Ser Val Ser Gly
1 5 10 15

Thr Ala Thr Thr Tyr Ser Gln Ser Ser
20 25

<210> 694
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<400> 694

Thr His Arg Leu His Leu Asn Arg Phe Ser Val Ser Gly Thr Ala Thr
1 5 10 15

Thr Tyr Ser Gln
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<210> 695
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<213> Homo sapiens

<400> 695

His Arg Leu His Leu Asn Arg Phe Ser Val Ser Gly Thr Ala Thr Thr
1 5 10 15

Tyr Ser